

Deaths

There were 24,417 resident deaths recorded for Kansas in 2003, a decrease of 2.2 percent from the 2002 total of 24,968. ([Table 30](#))

Elk, Republic and Comanche counties had the highest five-year (1999-2003) county death rates of 18.5, 18.4, and 18.1 deaths per 1,000 population respectively. Riley, Douglas, and Finney counties had the lowest five-year death rates of 5.0, 5.3, and 5.3 deaths per 1,000 population respectively. ([Table 30, Figure 26](#))

Belleville, Eureka, and Fredonia had the highest five-year city death rates (1999-2003) of 28.2, 22.2, and 19.7 respectively. Olathe, Lawrence, and Shawnee experienced the lowest five-year city death rates of 4.7, 4.8, and 5.2 respectively. ([Table 31](#))

The Kansas death rate in 2003 was 9.0 deaths per 1,000 population, which was 5.9 percent higher than the estimated U.S. rate of 8.5 deaths per 1,000 population. ([Figure 27](#))

Of all stillbirths in 2003, 71.8 percent were attributed to conditions originating in the perinatal period, 17.8 percent were attributed to symptoms, signs and abnormal findings and 9.7 percent to congenital anomalies. ([Table 32](#))

Examining the components that constitute perinatal period III mortality, the numbers of stillbirths and hebdodal deaths declined 45.6 percent and 61.0 percent respectively from 1974 to 2003. Caution should be used in interpreting these decreases due to the relatively small number of occurrences. In 2003, there were 344 perinatal period III deaths, representing a death rate of 8.7 deaths per 1,000 live births plus stillbirths. This rate has decreased 60.8 percent from the 1974 rate of 22.2. ([Table 33 and Table 34, Figure 28](#))

A total of 262 infant deaths occurred to Kansas residents in 2003. The overall infant death rate for 2003 was 6.7 infant deaths per 1,000 live births. For comparison, the 2003 rate (6.7) represents a decrease of 57.3 percent from the rate of 15.7 in 1974. The white infant death rate was 6.2 deaths per 1,000 live births in 2003, a decrease of 59.2 percent from the rate of 15.2 in 1974. The black infant death rate in 2003 was 14.5, a decrease of 38.3 percent from the rate of 23.5 in 1974. ([Figure 29, Table 35 and Table 36](#))

During the five-year period, 1999-2003, the infant death rate for Kansas was 7.0. Lane county had the highest infant death rate (21.7) during this time period. Of those counties reporting infant deaths, Nemaha county had the lowest rate (1.5). Eighteen counties had no infant deaths. ([Table 36](#))

Of all infant deaths in 2003, 51.2 percent were attributed to conditions originating in the perinatal period, 19.8 percent were attributed to congenital anomalies, 12.6 percent to sudden infant death syndrome and 16.4 percent to all other causes. ([Table 37](#))

Deaths (Cont.)

For each year from 1991 to 2002 there were five or fewer maternal deaths among Kansas residents. In 2003, for the first time in recorded history, there were no maternal deaths to Kansas residents. ([Figure 31](#))

The Kansas age-adjusted death rate per 1,000 standard U.S. 2000 population was consistently below that of the U.S. from 1994-2002. ([Table 40](#), [Figure 32](#))

The state's 2003 age-adjusted death rate for males (9.7) was 38.6 percent higher than the rate of 7.0 for females. ([Table 40](#))

The average age at death of Kansas residents in 2003 was 74.5 years, a 3.8 percent increase from the average age at death of 71.8 years in 1984. ([Table 41](#))

The average age at death for the white population in 2003 was 75.2 years, eleven years older than that of the black population, whose average age at death was 64.0 years. ([Table 42](#))

The two leading causes of death in Kansas in 2003, heart disease and malignant neoplasms, had average ages at death of 79.9 and 71.7 years respectively. Atherosclerosis, with an average age at death of 86.4 years, had the highest average age at death of any of the leading causes of death. ([Table 45](#))

The average age at death for male unintentional injury victims for 1994 and 2003 was 45.1 and 47.3 respectively, while for females the average age was 56.9 and 57.8 years respectively. For this time period, the average age at death increased for female unintentional injury victims 1.6 percent while for male unintentional injury victims it increased 4.9 percent. ([Table 45](#))

The cause-specific death rate for Alzheimer's Disease in Kansas was 28.7 deaths per 100,000 population in 2003. The rate for females (40.1) was more than twice as high as the rate for males (17.2). ([Table 45](#))

The cancer death rate for 2003 was 194.1 deaths per 100,000 population, 7.0 percent lower than the rate of 208.7 in 1994. ([Table 45](#) and [Table 46](#))

In 2003, the unintentional injury death rate was 39.5 deaths per 100,000 population, 6.8 percent higher than the rate of 37.0 in 1994. ([Table 45](#) and [Table 46](#))

The age-adjusted death rate for the leading cause of death, heart disease, was 210.3, and for cancer, the second leading cause of death, the age-adjusted death rate was 184.5 per 100,000 standard U.S. 2000 population. Together, these two causes accounted for almost 50 percent of all Kansas resident deaths. ([Table 46](#))

Deaths (Cont.)

Heart disease reached a high of 393.4 deaths per 100,000 population in 1973 and gradually declined to 236.0 deaths per 100,000 population in 2003. Conversely, cancer rates steadily increased from 140.6 to 207.1 deaths per 100,000 population from 1956 to 1996, but have declined since 1996, to 194.1 in 2003. ([Figure 33](#))

In 2003, Kansans died from cerebrovascular disease at slightly more than half the rate of forty years ago, with the death rates for this disease going from 123.5 in 1964 to 64.2 in 2003. The death rate for unintentional injury also declined, going from 59.9 in 1964 to 39.5 in 2003, a 34.1 percent decrease. ([Figure 33](#))

In 2003, unintentional injuries were the leading cause of death for Kansas residents 1-44 years of age. ([Figure 34](#))

In 2003, cancer of the respiratory and intrathoracic organs, digestive organs and breast were the leading causes of cancer deaths in women. ([Table 48](#))

The dominant occupations for deaths due to unintentional injuries, suicides, chronic liver disease and cirrhosis and homicides were operators, fabricators and laborers. ([Table 52](#))

Mortality in Kansas was responsible for 191,819 years of potential life lost in 2003. Cancer was the second leading cause of death in Kansas, but accounted for the most years of potential life lost (42,703). Unintentional injuries represented nearly two times the years of potential life lost among men (19,587 years) compared to women (9,850 years). ([Table 54](#), [Figure 35](#))

Table 30
 Deaths by Number and Rate*
 By County of Residence and by Peer Group**
 Kansas, 1999-2003

County of Residence	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Kansas.....	24,380	9.2	24,676	9.2	24,590	9.1	24,968	9.2	24,417	9.0	9.1	
Allen.....	195	13.5	169	11.7	192	13.5	168	11.8	211	15.2	13.1	
Anderson.....	91	11.2	104	12.8	99	12.1	109	13.4	104	12.7	12.4	
Atchison.....	190	11.3	183	10.9	172	10.3	208	12.5	175	10.5	11.1	
Barber.....	74	14.1	73	13.8	66	12.8	77	15.1	55	10.9	13.3	
Barton.....	350	12.2	351	12.4	315	11.3	294	10.6	302	11.0	11.5	
Bourbon.....	196	13.1	221	14.4	186	12.1	225	14.8	181	12.0	13.3	
Brown.....	134	12.3	135	12.6	129	12.1	149	14.2	131	12.5	12.7	
Butler.....	512	8.2	580	9.8	492	8.2	529	8.7	531	8.7	8.7	
Chase.....	53	18.6	37	12.2	40	13.2	41	14.0	44	14.2	14.4	
Chautauqua.....	56	13.1	65	14.9	76	17.8	87	20.7	64	15.3	16.4	
Cherokee.....	259	11.6	281	12.4	261	11.7	258	11.8	253	11.6	11.8	
Cheyenne.....	33	10.2	43	13.6	42	13.5	40	12.8	40	13.5	12.7	
Clark.....	37	15.8	27	11.3	22	9.3	38	16.0	22	9.4	12.4	
Clay.....	117	13.0	107	12.1	99	11.3	126	14.5	84	9.8	12.1	
Cloud.....	150	15.0	175	17.0	154	15.4	160	16.1	170	17.2	16.1	
Coffey.....	84	9.6	94	10.6	129	14.6	110	12.4	109	12.4	11.9	
Comanche.....	40	20.5	31	15.8	25	12.7	47	23.7	34	17.8	18.1	
Cowley.....	475	12.9	439	12.1	437	12.2	441	12.1	432	12.0	12.3	
Crawford.....	456	12.5	483	12.6	444	11.7	439	11.5	478	12.4	12.1	
Decatur.....	49	14.5	47	13.5	59	17.2	56	16.4	50	15.2	15.4	
Dickinson.....	274	13.9	226	11.7	224	11.7	287	15.0	233	12.1	12.9	
Doniphan.....	82	10.3	108	13.1	90	10.8	70	8.5	90	11.0	10.7	
Douglas.....	498	5.1	538	5.4	549	5.5	560	5.5	530	5.1	5.3	
Edwards.....	56	17.1	45	13.0	40	12.0	48	14.4	45	13.7	14.0	
Elk.....	65	19.2	72	22.1	56	17.6	51	16.3	54	17.1	18.5	
Ellis.....	241	9.2	229	8.3	249	9.1	263	9.6	245	9.0	9.0	
Ellsworth.....	70	11.3	103	15.8	93	14.3	94	14.6	69	10.9	13.4	
Finney.....	193	5.2	225	5.6	207	5.2	211	5.3	205	5.2	5.3	
Ford.....	274	9.3	262	8.1	295	9.1	282	8.6	248	7.5	8.5	
Franklin.....	231	9.2	245	9.9	237	9.5	238	9.4	228	8.9	9.4	
Geary.....	229	9.2	197	7.0	204	7.6	209	7.9	197	7.5	7.8	
Gove.....	48	15.9	32	10.4	41	13.6	38	12.7	48	16.5	13.8	
Graham.....	38	12.2	43	14.6	38	13.4	42	14.8	36	12.8	13.6	
Grant.....	51	6.5	64	8.1	43	5.5	52	6.6	54	7.0	6.7	
Gray.....	34	6.1	56	9.5	49	8.2	70	11.6	59	9.7	9.0	
Greeley.....	13	7.9	19	12.4	15	10.0	22	14.9	19	13.4	11.7	
Greenwood.....	136	17.1	113	14.7	136	17.5	136	17.8	125	16.7	16.8	
Hamilton.....	32	13.5	31	11.6	32	12.0	31	11.7	24	9.0	11.6	
Harper.....	108	17.1	107	16.4	96	15.2	106	16.9	106	17.1	16.5	
Harvey.....	353	10.3	367	11.2	323	9.8	347	10.4	368	11.0	10.5	
Haskell.....	38	9.4	30	7.0	36	8.4	27	6.3	25	5.9	7.4	
Hodgeman.....	25	11.2	14	6.7	26	12.1	31	14.4	17	7.9	10.5	
Jackson.....	144	11.8	130	10.3	141	11.1	131	10.3	121	9.3	10.6	
Jefferson.....	166	9.1	160	8.7	150	8.1	165	8.8	148	7.9	8.5	
Jewell.....	66	17.4	67	17.7	56	15.6	51	14.6	55	16.0	16.3	
Johnson.....	2,689	6.1	2,661	5.9	2,855	6.1	2,861	6.0	2,847	5.9	6.0	
Kearny.....	48	11.6	38	8.4	28	6.1	51	11.2	39	8.5	9.2	
Kingman.....	122	14.1	99	11.4	114	13.4	122	14.5	111	13.2	13.3	
Kiowa.....	45	13.4	42	12.8	47	15.0	25	8.0	34	10.8	12.0	
Labette.....	276	12.0	324	14.2	303	13.5	302	13.6	296	13.3	13.3	
Lane.....	35	16.1	20	9.3	18	8.6	39	19.5	38	19.5	14.6	
Leavenworth.....	518	7.2	443	6.4	562	8.0	524	7.4	550	7.7	7.3	
Lincoln.....	48	14.4	54	15.1	73	20.6	48	13.6	66	18.9	16.5	
Linn.....	130	14.0	114	11.9	129	13.3	106	11.0	95	9.8	12.0	
Logan.....	37	12.6	50	16.4	44	14.9	37	12.3	31	10.9	13.4	

Table 30
Deaths by Number and Rate*
By County of Residence and by Peer Group**
Kansas, 1999-2003

County of Residence	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Lyon.....	280	8.3	323	9.0	280	7.9	290	8.1	278	7.8	8.2	
Marion.....	188	13.9	210	15.7	136	10.1	211	15.9	165	12.4	13.6	
Marshall.....	155	14.2	139	12.7	146	13.6	134	12.7	165	15.6	13.8	
McPherson.....	336	11.7	344	11.6	336	11.3	380	12.9	326	11.1	11.7	
Meade.....	53	12.0	53	11.4	38	8.2	48	10.4	58	12.4	10.9	
Miami.....	228	8.4	265	9.3	253	8.8	254	8.8	257	8.8	8.8	
Mitchell.....	100	14.4	110	15.9	82	12.1	91	13.6	100	14.9	14.2	
Montgomery.....	472	12.8	486	13.4	472	13.3	487	13.8	459	13.1	13.3	
Morris.....	75	12.1	83	13.6	77	12.6	73	12.0	88	14.7	13.0	
Morton.....	22	6.3	33	9.4	27	8.0	32	9.5	29	8.7	8.4	
Nemaha.....	138	13.6	158	14.7	169	16.1	136	13.0	141	13.4	14.2	
Neosho.....	205	12.3	207	12.2	192	11.5	193	11.6	225	13.6	12.2	
Ness.....	39	10.9	61	17.7	42	12.6	47	14.2	54	17.1	14.5	
Norton.....	83	14.7	81	13.6	65	11.1	64	10.9	68	11.7	12.4	
Osage.....	181	10.5	171	10.2	191	11.3	184	10.9	183	10.9	10.8	
Osborne.....	79	17.2	74	16.6	70	16.1	70	16.5	78	18.7	17.0	
Ottawa.....	95	16.1	68	11.0	88	14.2	77	12.2	91	14.7	13.6	
Pawnee.....	85	11.8	102	14.1	89	12.8	92	13.2	86	12.7	12.9	
Phillips.....	83	13.9	84	14.0	85	14.5	119	20.3	95	16.8	15.9	
Pottawatomie.....	176	9.3	173	9.5	169	9.2	161	8.7	168	9.0	9.1	
Pratt.....	115	12.1	128	13.3	129	13.5	121	12.7	108	11.4	12.6	
Rawlins.....	42	13.9	48	16.2	41	14.1	34	11.8	40	14.1	14.0	
Reno.....	697	10.9	699	10.8	703	10.9	701	11.0	640	10.0	10.7	
Republic.....	107	17.9	109	18.7	110	19.5	103	18.8	92	17.3	18.4	
Rice.....	132	12.9	136	12.6	131	12.4	123	11.7	129	12.4	12.4	
Riley.....	323	5.1	296	4.7	331	5.5	326	5.3	278	4.5	5.0	
Rooks.....	83	14.8	70	12.3	80	14.3	72	13.1	70	12.9	13.5	
Rush.....	60	17.8	54	15.2	61	17.5	66	18.9	47	13.8	16.6	
Russell.....	114	15.3	106	14.4	98	13.7	94	13.3	103	14.9	14.3	
Saline.....	480	9.3	493	9.2	506	9.4	467	8.7	502	9.3	9.2	
Scott.....	55	11.1	58	11.3	47	9.4	64	13.0	52	10.8	11.1	
Sedgwick.....	3,477	7.7	3,626	8.0	3,684	8.1	3,847	8.3	3,834	8.3	8.1	
Seward.....	124	6.2	160	7.1	151	6.7	126	5.5	141	6.1	6.3	
Shawnee.....	1,721	10.1	1,757	10.3	1,785	10.5	1,702	10.0	1,733	10.1	10.2	
Sheridan.....	41	15.3	27	9.6	46	16.9	35	13.3	35	13.1	13.6	
Sherman.....	77	11.8	73	10.8	67	10.3	79	12.3	65	10.4	11.1	
Smith.....	81	17.7	76	16.8	79	17.8	60	13.7	78	18.7	16.9	
Stafford.....	70	14.0	74	15.5	70	14.7	81	17.4	46	10.0	14.3	
Stanton.....	18	8.1	26	10.8	15	6.2	21	8.7	19	7.9	8.3	
Stevens.....	38	7.0	52	9.5	63	11.7	38	7.1	48	8.9	8.8	
Sumner.....	292	10.7	308	11.9	247	9.6	270	10.6	286	11.3	10.8	
Thomas.....	81	10.2	78	9.5	74	9.2	78	9.6	62	7.8	9.3	
Trego.....	60	18.4	49	14.8	45	14.1	46	14.6	36	11.6	14.7	
Wabaunsee.....	80	12.2	75	10.9	77	11.3	55	8.2	65	9.6	10.4	
Wallace.....	20	11.1	19	10.9	21	12.3	21	12.4	26	16.0	12.5	
Washington.....	98	15.1	99	15.3	109	17.2	96	15.3	94	15.3	15.6	
Wichita.....	22	8.5	26	10.3	21	8.3	29	11.6	20	8.2	9.4	
Wilson.....	152	14.7	169	16.4	138	13.5	134	13.2	147	14.6	14.5	
Woodson.....	59	15.1	55	14.5	65	17.3	69	18.8	60	16.5	16.4	
Wyandotte.....	1,624	10.7	1,532	9.7	1,551	9.9	1,588	10.0	1,521	9.7	10.0	
Peer Group												
Frontier	1,379	14.2	1,331	13.5	1,274	13.2	1,322	13.8	1,271	13.4	13.6	
Rural	3,728	13.0	3,813	13.1	3,718	12.9	3,789	13.2	3,567	12.6	13.0	
Densely -Settled Rural	4,485	10.5	4,541	10.5	4,367	10.1	4,488	10.4	4,348	10.1	10.3	
Semi-Urban	4,779	9.0	4,877	9.1	4,807	9.0	4,811	9.0	4,766	8.9	9.0	
Urban	10,009	7.6	10,114	7.6	10,424	7.7	10,558	7.7	10,465	7.6	7.6	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Table 31
Deaths by Number and Rate*
By Selected City of Residence
Kansas, 1999-2003

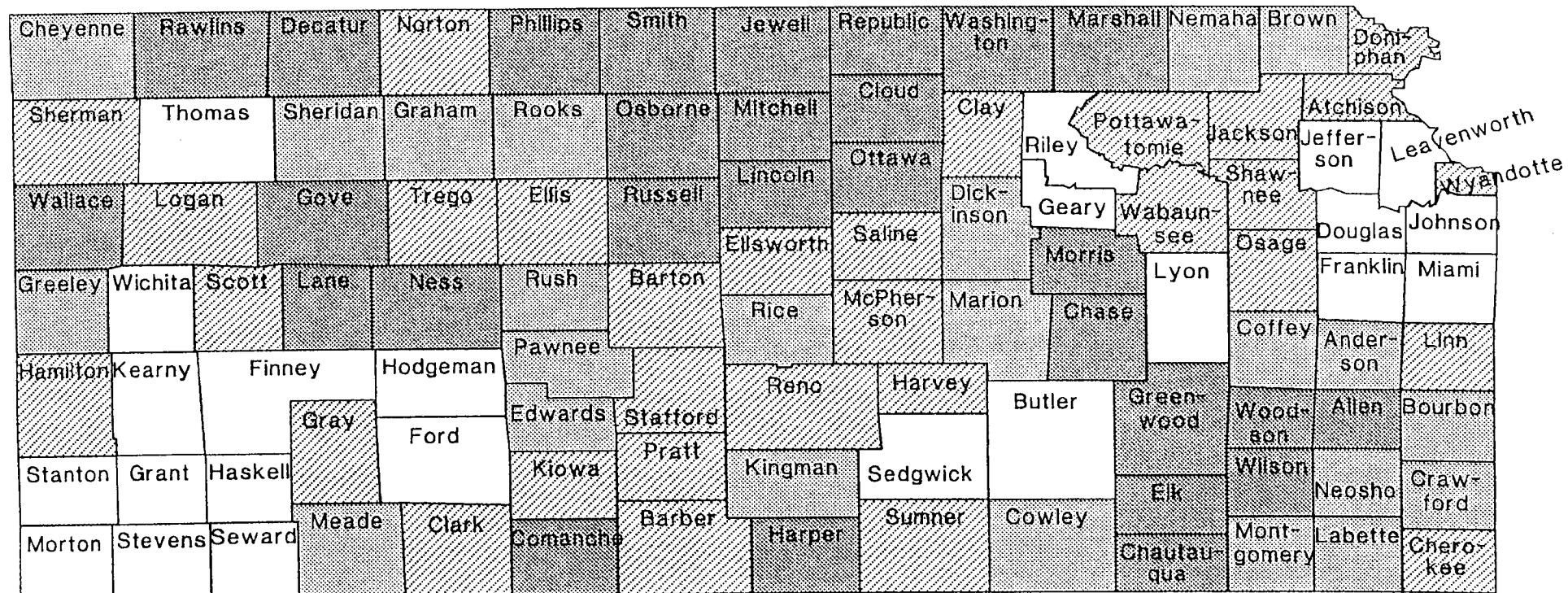
City of Residence	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Abilene.....	108	16.6	97	14.8	85	13.1	120	18.6	91	14.1	15.4	
Andover.....	53	10.6	62	9.3	64	8.9	56	7.2	52	6.3	8.5	
Anthony.....	42	19.1	43	17.6	31	13.1	42	17.9	34	14.7	16.5	
Arkansas City.....	171	13.4	194	16.2	198	16.9	183	15.2	176	14.9	15.3	
Atchison.....	148	14.0	141	13.8	130	12.8	160	15.8	134	13.3	13.9	
Augusta.....	109	11.1	129	15.3	82	9.7	118	13.9	106	12.5	12.5	
Baldwin City.....	15	4.2	34	10.0	35	10.0	46	12.9	44	12.1	9.8	
Baxter Springs.....	69	15.0	74	16.1	63	14.0	55	12.5	46	10.6	13.6	
Belleville.....	60	26.1	74	33.1	71	32.8	50	23.8	51	25.1	28.2	
Beloit.....	63	16.2	73	18.2	46	11.7	54	14.0	56	14.5	14.9	
Bonner Springs.....	68	11.3	50	7.4	61	9.0	67	9.8	68	10.0	9.5	
Burlington.....	26	9.3	43	15.4	45	16.3	38	13.6	40	14.5	13.8	
Chanute.....	124	13.3	129	13.7	132	14.3	119	13.0	141	15.6	14.0	
Cherryvale.....	39	17.0	36	15.1	40	17.1	27	11.7	26	11.3	14.4	
Clay Center.....	75	16.7	66	14.5	58	12.8	81	18.1	50	11.4	14.7	
Coffeyville.....	165	13.5	179	16.2	189	17.6	189	17.8	188	18.0	16.6	
Colby.....	69	13.3	59	10.8	54	10.1	59	11.0	46	8.8	10.8	
Columbus.....	64	18.8	57	16.8	52	15.5	60	18.2	59	18.0	17.5	
Concordia.....	92	16.4	110	19.3	96	17.3	82	14.9	102	18.7	17.3	
Derby.....	126	7.7	114	6.4	127	7.0	127	6.7	142	7.4	7.0	
Dodge City.....	202	8.9	188	7.5	203	8.1	210	8.3	190	7.4	8.0	
Edwardsville.....	62	16.8	48	11.6	54	12.4	55	12.4	60	13.5	13.3	
El Dorado.....	170	11.9	167	13.9	164	13.7	168	13.3	152	12.0	13.0	
Ellinwood.....	27	11.7	30	13.9	23	10.8	34	16.1	34	16.3	13.8	
Emporia.....	222	9.0	253	9.5	228	8.6	231	8.6	221	8.3	8.8	
Eudora.....	46	12.8	53	12.3	55	12.5	45	9.3	41	8.3	11.0	
Eureka.....	68	22.7	53	18.2	70	23.8	68	23.5	64	22.7	22.2	
Fairway.....	31	6.0	30	7.6	34	8.7	27	6.9	31	8.0	7.4	
Fort Scott.....	140	16.7	168	20.2	121	14.6	161	19.8	130	16.1	17.5	
Frederonia.....	50	19.2	55	21.2	44	17.2	46	18.1	57	22.6	19.7	
Frontenac.....	35	13.5	42	14.0	50	16.7	48	15.7	38	12.2	14.4	
Galena.....	42	12.0	52	15.8	40	12.3	43	13.5	55	17.4	14.2	
Garden City.....	165	6.0	196	6.9	179	6.4	178	6.4	181	6.7	6.5	
Garnett.....	44	13.3	61	18.1	61	18.0	63	18.7	70	20.7	17.8	
Girard.....	52	17.9	68	24.5	38	13.9	36	13.2	49	17.9	17.5	
Goodland.....	58	12.3	63	12.7	51	10.7	68	14.5	50	10.9	12.2	
Great Bend.....	214	14.3	193	12.6	189	12.5	175	11.6	171	11.5	12.5	
Hays.....	166	9.2	155	7.7	153	7.7	198	9.9	176	8.8	8.7	
Haysville.....	91	9.7	73	8.6	91	10.0	85	9.1	93	9.7	9.4	
Herington.....	53	18.9	39	15.2	55	21.9	55	22.0	40	16.1	18.8	
Hesston.....	49	14.8	48	13.7	48	13.6	47	13.1	43	11.9	13.4	
Hiawatha.....	52	14.9	58	17.0	51	15.0	58	17.2	54	16.2	16.1	
Hillsboro.....	43	15.4	54	18.9	29	10.1	57	20.1	33	11.6	15.2	
Hoisington.....	40	12.9	50	16.8	46	15.8	38	12.8	39	13.2	14.3	
Holton.....	68	20.0	56	16.7	55	16.5	58	17.6	52	15.6	17.3	
Hugoton.....	27	7.9	39	10.5	48	13.2	32	8.9	41	11.3	10.4	
Hutchinson.....	484	12.1	515	12.6	505	12.5	530	13.0	467	11.5	12.3	
Independence.....	142	15.1	135	13.7	147	15.3	146	15.3	140	14.9	14.9	
Iola.....	94	14.9	102	16.2	98	15.8	92	14.9	101	16.7	15.7	
Junction City.....	190	11.2	170	9.0	148	8.2	174	9.8	165	9.3	9.5	
Kansas City.....	1,485	10.6	1,418	9.7	1,422	9.7	1,460	9.9	1,383	9.5	9.9	

Table 31
Deaths by Number and Rate*
By Selected City of Residence
Kansas, 1999-2003

City of Residence	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Kingman.....	72	21.8	48	14.2	50	15.1	62	19.0	55	16.8	17.4	
Lansing.....	56	7.1	60	6.5	63	6.7	81	8.5	61	6.1	7.0	
Larned.....	70	16.3	77	18.2	66	16.2	80	19.8	58	14.8	17.1	
Lawrence.....	371	4.7	381	4.8	392	4.9	399	4.9	379	4.6	4.8	
Leavenworth.....	297	6.9	248	7.0	310	8.7	273	7.7	314	8.9	7.8	
Leawood.....	161	6.6	158	5.7	149	5.3	171	6.0	148	5.1	5.7	
Lenexa.....	246	5.8	281	7.0	255	6.3	207	5.0	229	5.5	5.9	
Liberal.....	112	6.3	144	7.3	136	7.0	111	5.5	121	6.0	6.4	
Lindsborg.....	55	16.7	62	18.7	45	13.5	47	14.3	43	13.1	15.3	
Lyons.....	60	16.7	66	17.7	49	13.4	57	15.8	55	15.4	15.8	
Manhattan.....	238	6.4	228	5.1	267	6.2	257	5.9	209	4.7	5.7	
Marysville.....	58	18.7	51	15.6	55	17.2	42	13.4	62	19.8	16.9	
McPherson.....	137	10.5	147	10.7	139	10.1	165	12.0	143	10.4	10.7	
Medicine Lodge.....	39	17.7	34	15.5	28	13.2	37	17.7	27	13.1	15.4	
Merriam.....	92	6.3	91	8.3	88	8.0	80	7.4	91	8.4	7.7	
Mission.....	78	6.6	86	8.8	83	8.6	78	8.1	82	8.6	8.1	
Mission Hills.....	19	4.4	21	5.8	24	6.7	26	7.3	25	7.0	6.2	
Mulvane	48	9.2	47	9.1	43	8.2	56	10.2	51	9.2	9.2	
Neodesha.....	51	17.6	56	19.7	62	22.1	55	19.9	48	17.6	19.4	
Newton.....	197	10.7	212	12.3	188	10.9	197	11.0	206	11.5	11.3	
Norton.....	62	21.4	54	17.9	45	15.3	52	17.6	45	15.5	17.5	
Olathe.....	398	5.1	394	4.2	441	4.6	457	4.5	511	4.9	4.7	
Osage City.....	51	17.0	38	12.5	51	16.8	48	15.9	61	20.6	16.6	
Osawatomie.....	60	11.3	80	17.2	81	17.5	68	14.7	65	14.1	15.0	
Ottawa.....	143	11.7	146	12.2	132	11.1	136	11.4	116	9.6	11.2	
Overland Park.....	938	6.8	930	6.2	1,033	6.7	1,036	6.5	1,040	6.5	6.5	
Paola.....	62	11.5	67	13.4	69	13.7	56	11.1	83	16.4	13.2	
Parsons.....	148	12.9	206	17.9	172	15.1	189	16.7	159	14.1	15.3	
Phillipsburg.....	42	16.2	47	17.6	38	14.6	56	21.6	36	14.3	16.9	
Pittsburg.....	223	12.3	224	11.6	229	12.0	219	11.5	229	11.9	11.9	
Plainville.....	37	18.5	24	11.8	39	19.5	36	18.5	29	15.1	16.7	
Prairie Village.....	201	7.0	196	8.9	207	9.4	194	8.9	181	8.3	8.5	
Pratt.....	89	13.5	105	16.0	109	16.8	104	16.0	86	13.4	15.1	
Roeland Park.....	55	5.7	38	5.6	49	7.2	46	6.9	43	6.1	6.3	
Russell.....	70	15.2	64	13.6	68	14.9	65	14.5	72	16.3	14.9	
Salina.....	445	10.1	452	9.9	461	10.1	410	8.9	455	9.9	9.8	
Scott City.....	51	14.6	54	14.0	45	12.0	56	15.0	47	12.9	13.7	
Shawnee.....	265	5.6	238	5.0	278	5.5	278	5.3	255	4.7	5.2	
Topeka.....	1,477	11.6	1,524	12.5	1,534	12.6	1,480	12.1	1,513	12.4	12.2	
Ulysses.....	40	6.7	55	9.2	36	6.1	46	7.8	50	8.6	7.7	
Valley Center.....	34	8.3	36	7.4	54	11.0	44	8.8	40	7.7	8.6	
Wamego.....	46	10.5	42	9.9	45	10.7	46	10.9	43	10.1	10.4	
Wellington.....	111	12.6	124	14.3	99	11.6	108	12.8	109	13.1	12.9	
Wichita.....	2,918	8.6	3,117	9.1	3,081	8.9	3,253	9.2	3,204	9.0	9.0	
Winfield.....	188	15.8	160	13.1	163	13.4	164	13.4	162	13.5	13.8	

*Rate per 1,000 population

Death Rates By County Of Residence Kansas, 2003



Deaths Per 1,000 Population

State Rate: 9.0

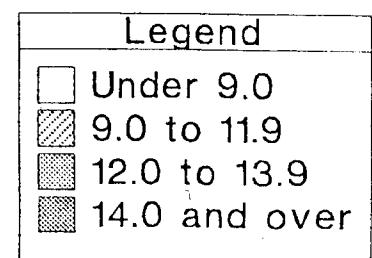
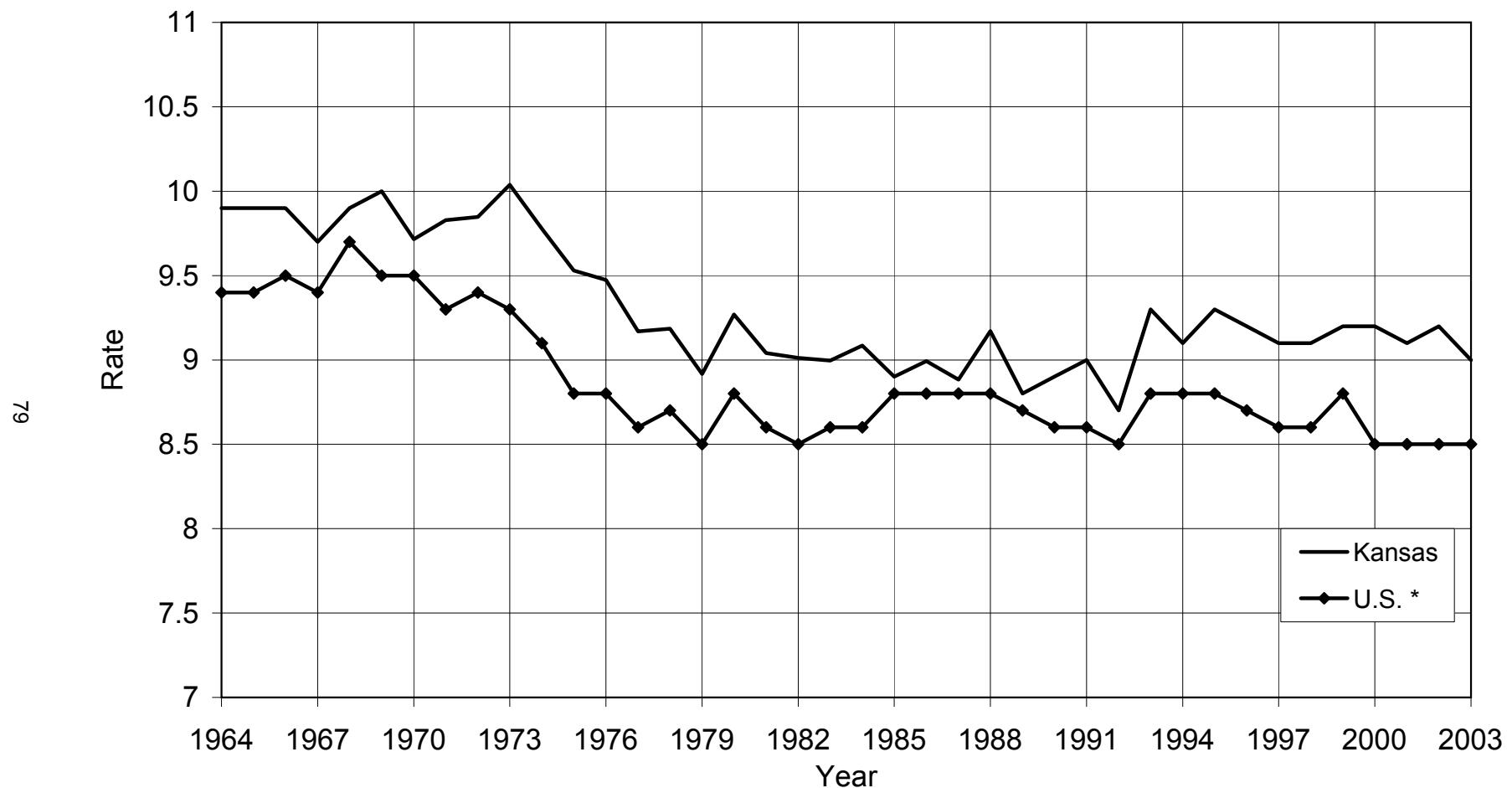


Figure 26

Death Rates

Kansas and the U.S., 1964-2003



*2002-2003 Rates Provisional

Rate per 1,000 Population

Residence Data

Figure 27

Table 32
Stillbirths by Cause of Death and Weeks Gestation
Kansas, 2003

Cause of Death (ICD-10 Code)	Total Stillbirths	Weeks Gestation					N.S.
		Under 20	20-31	32-41	42 & Over		
All Causes.....	206	2	106	92	0		6
Certain Conditions Originating in the Perinatal Period (P00-P96).....	148	1	80	62	0		5
-Fetus Affected by Maternal Conditions (P00).....	8	0	2	5	0		1
-Fetus Affected by Maternal Complications of Pregnancy (P01).....	12	0	12	0	0		0
-Fetus Affected by Complications of Placenta, Cord & Membrane (P02).....	73	1	33	38	0		1
-Fetus Affected by Complications of Labor & Delivery (P03).....	0	0	0	0	0		0
-Disorders Related to Short Gestation & Low Birth Weight (P07).....	11	0	10	0	0		1
-Hypoxia and Birth Asphyxia (P20-P21).....	0	0	0	0	0		0
-Cardiovascular Disorders (P29).....	1	0	0	1	0		0
-Hemorrhagic & Hematologic Disorders of Fetus (P50-P54, P56).....	0	0	0	0	0		0
-Unspecified Cause (P95).....	32	0	15	16	0		1
-Other Perinatal Conditions (P04-P05, P08-P15, P22-P28, P35-P39, P55, P57-P94, P96).....	11	0	8	2	0		1
Congenital Anomalies (Q00-Q99).....	20	0	13	7	0		0
Symptoms, Signs & Abnormal Findings (R00-R99).....	37	1	12	23	0		1
All other Causes (A00-N00, V06-Y36).....	1	0	1	0	0		0

Residence data

Table 33
Perinatal Period III Deaths by Component
Kansas, 1974-2003

Year	Stillbirths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
1974.....	379	354	733	22.2
1975.....	341	304	645	18.9
1976.....	364	310	674	18.9
1977.....	308	335	643	17.3
1978.....	331	254	585	15.8
1979.....	330	260	590	15.0
1980.....	340	226	566	13.8
1981.....	316	264	580	14.0
1982.....	336	234	570	13.9
1983.....	296	202	498	12.2
1984.....	277	200	477	11.9
1985.....	274	184	458	11.5
1986.....	242	153	395	10.0
1987.....	253	179	432	11.2
1988.....	236	161	397	10.2
1989.....	240	138	378	9.7
1990.....	217	162	379	9.7
1991.....	205	158	363	9.6
1992.....	216	165	381	10.0
1993.....	222	171	393	10.5
1994.....	231	140	371	9.9
1995.....	183	134	317	8.5
1996.....	179	157	336	9.2
1997.....	202	147	349	9.3
1998.....	199	132	331	8.6
1999.....	175	159	334	8.6
2000.....	177	146	323	8.1
2001.....	209	148	357	9.1
2002.....	146	155	301	7.6
2003.....	206	138	344	8.7

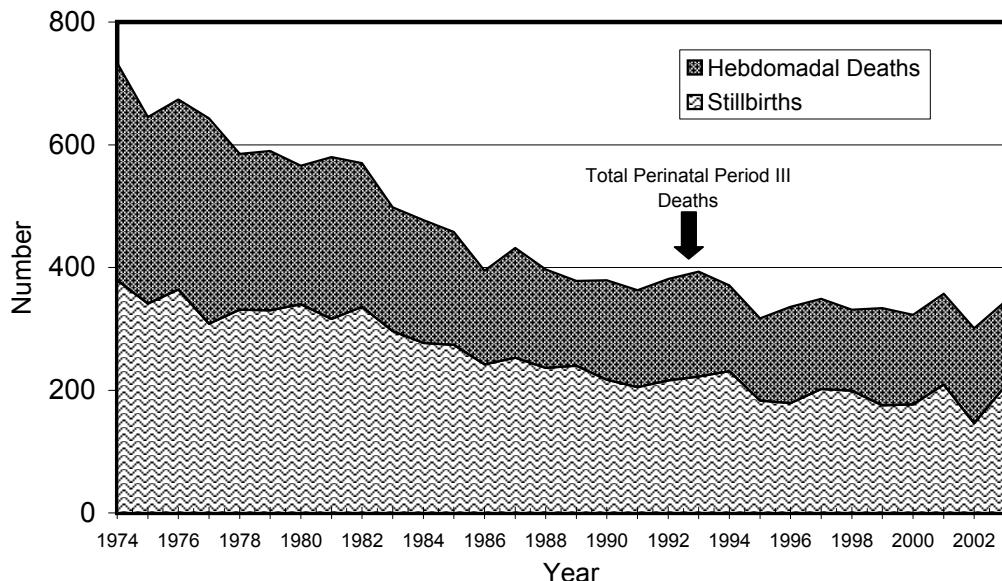
*Rate per 1,000 live births + stillbirths
Residence data

Table 34
Perinatal Period III Deaths by Component
By County of Residence
Kansas, 2003

County of Residence	Total	Perinatal Period III Deaths		County of Residence	Total	Perinatal Period III Deaths	
		Stillbirths	Hebdomadal Deaths			Stillbirths	Hebdomadal Deaths
Kansas.....	344	206	138				
Allen.....	0	0	0	Lyon.....	6	4	2
Anderson.....	1	1	0	Marion.....	0	0	0
Atchison.....	2	2	0	Marshall.....	1	1	0
Barber.....	1	1	0	McPherson.....	2	2	0
Barton.....	5	0	5	Meade.....	2	1	1
Bourbon.....	3	3	0	Miami.....	3	2	1
Brown.....	1	1	0	Mitchell.....	0	0	0
Butler.....	5	4	1	Montgomery.....	2	0	2
Chase.....	0	0	0	Morris.....	1	1	0
Chautauqua.....	0	0	0	Morton.....	0	0	0
Cherokee.....	3	1	2	Nemaha.....	0	0	0
Cheyenne.....	0	0	0	Neosho.....	1	1	0
Clark.....	0	0	0	Ness.....	0	0	0
Clay.....	1	1	0	Norton.....	0	0	0
Cloud.....	2	2	0	Osage.....	2	2	0
Coffey.....	2	1	1	Osborne.....	0	0	0
Comanche.....	0	0	0	Ottawa.....	0	0	0
Cowley.....	5	3	2	Pawnee.....	1	1	0
Crawford.....	2	0	2	Phillips.....	0	0	0
Decatur.....	0	0	0	Pottawatomie.....	1	0	1
Dickinson.....	0	0	0	Pratt.....	2	1	1
Doniphan.....	1	1	0	Rawlins.....	0	0	0
Douglas.....	10	4	6	Reno.....	2	0	2
Edwards.....	1	0	1	Republic.....	1	1	0
Elk.....	0	0	0	Rice.....	1	1	0
Ellis.....	6	6	0	Riley.....	10	6	4
Ellsworth.....	1	1	0	Rooks.....	1	0	1
Finney.....	7	4	3	Rush.....	0	0	0
Ford.....	7	2	5	Russell.....	0	0	0
Franklin.....	1	0	1	Saline.....	3	1	2
Geary.....	7	4	3	Scott.....	0	0	0
Gove.....	1	0	1	Sedgwick.....	72	42	30
Graham.....	0	0	0	Seward.....	5	3	2
Grant.....	1	0	1	Shawnee.....	27	18	9
Gray.....	2	2	0	Sheridan.....	2	2	0
Greeley.....	0	0	0	Sherman.....	0	0	0
Greenwood.....	2	0	2	Smith.....	1	1	0
Hamilton.....	0	0	0	Stafford.....	2	2	0
Harper.....	2	2	0	Stanton.....	0	0	0
Harvey.....	2	0	2	Stevens.....	0	0	0
Haskell.....	0	0	0	Sumner.....	2	1	1
Hodgeman.....	0	0	0	Thomas.....	1	1	0
Jackson.....	1	0	1	Trego.....	0	0	0
Jefferson.....	1	1	0	Wabaunsee.....	0	0	0
Jewell.....	0	0	0	Wallace.....	0	0	0
Johnson.....	43	28	15	Washington.....	0	0	0
Kearny.....	0	0	0	Wichita.....	0	0	0
Kingman.....	0	0	0	Wilson.....	2	1	1
Kiowa.....	0	0	0	Woodson.....	1	1	0
Labette.....	3	2	1	Wyandotte.....	44	27	17
Lane.....	0	0	0				
Leavenworth.....	11	5	6				
Lincoln.....	0	0	0				
Linn.....	0	0	0				
Logan.....	0	0	0				

Perinatal Period III Deaths by Component

Kansas, 1974-2003

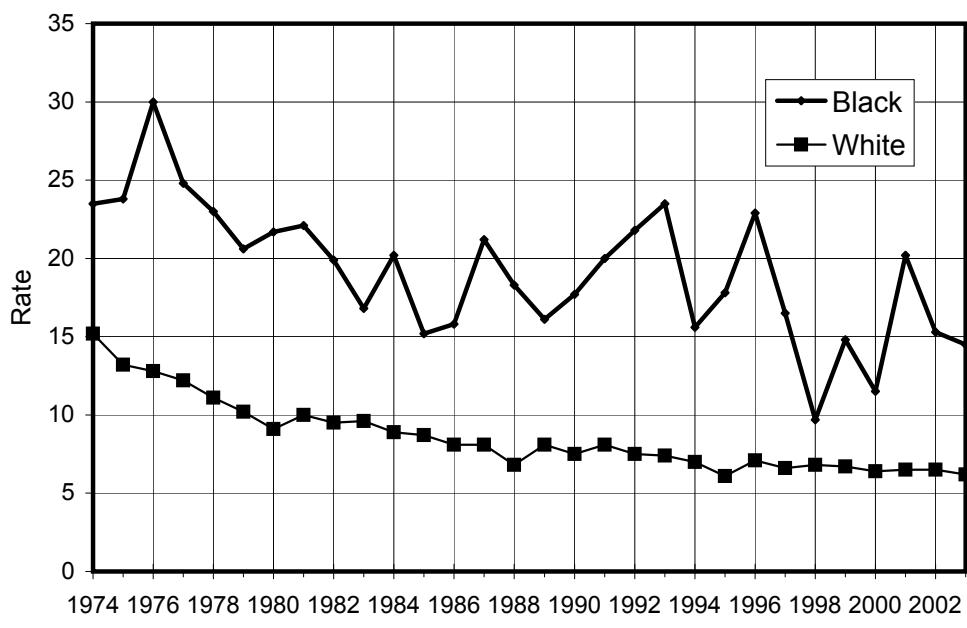


Residence Data

Figure 28

Infant Death Rates by Race of Mother

Kansas 1974-2003



Rate per 1,000 Live Births
Residence Data

Figure 29

Table 35
 Infant Death Rates*
 By Race of Mother
 Kansas, 1974-2003

Year	White			Black			Total Infant Death Rate: All Races**
	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	
1974	30,046	458	15.2	2,212	52	23.5	15.7
1975	30,980	408	13.2	2,226	53	23.8	13.9
1976	32,220	414	12.8	2,433	73	30.0	13.9
1977	33,657	411	12.2	2,577	64	24.8	13.0
1978	33,277	369	11.1	2,691	62	23.0	12.0
1979	35,315	360	10.2	2,918	60	20.6	11.0
1980	36,772	336	9.1	3,129	68	21.7	10.1
1981	37,253	374	10.0	3,030	67	22.1	11.0
1982	36,650	350	9.5	3,065	61	19.9	10.2
1983	36,424	349	9.6	2,971	50	16.8	10.1
1984	36,025	322	8.9	2,916	59	20.2	9.8
1985	35,551	308	8.7	2,890	44	15.2	9.1
1986	35,142	283	8.1	3,032	48	15.8	8.6
1987	34,371	279	8.1	3,068	65	21.2	9.2
1988	34,541	234	6.8	3,176	58	18.3	7.9
1989	34,387	278	8.1	3,235	52	16.1	8.8
1990	34,605	261	7.5	3,328	59	17.7	8.4
1991	33,404	269	8.1	3,154	63	20.0	9.0
1992	33,472	252	7.5	3,310	72	21.8	8.8
1993	32,896	242	7.4	3,230	76	23.5	8.7
1994	33,041	230	7.0	3,133	49	15.6	7.6
1995	32,964	201	6.1	2,867	51	17.8	6.9
1996	32,610	230	7.1	2,755	63	22.9	8.2
1997	33,118	218	6.6	2,794	46	16.5	7.4
1998	34,192	234	6.8	2,771	27	9.7	6.9
1999	34,483	230	6.7	2,841	42	14.8	7.3
2000	35,158	224	6.4	2,858	33	11.5	6.7
2001	34,437	223	6.5	2,770	56	20.2	7.3
2002	34,740	227	6.5	2,872	44	15.3	7.2
2003	34,801	216	6.2	2,753	40	14.5	6.7

*Rate per 1,000 live births

**Other nonwhite data is not included in this table due

to the small numbers but is available upon request.

Residence data

Table 36
Infant Deaths by County of Residence
And by Peer Group*
Kansas, 1999-2003

County of Residence	Year					Total Infant Deaths 1999-2003	Infant Death Rate** 1999-2003
	1999	2000	2001	2002	2003		
Kansas.....	281	266	285	282	262	1,376	7.0
Allen.....	1	0	2	0	1	4	4.4
Anderson.....	1	1	0	0	1	3	5.8
Atchison.....	2	4	2	0	0	8	7.6
Barber.....	0	0	1	0	0	1	4.7
Barton.....	1	0	2	4	8	15	8.4
Bourbon.....	2	2	0	2	2	8	7.9
Brown.....	1	2	1	2	0	6	8.8
Butler.....	4	4	2	8	4	22	5.9
Chase.....	0	0	0	0	0	0	0.0
Chautauqua.....	0	0	0	0	0	0	0.0
Cherokee.....	3	2	0	0	3	8	5.7
Cheyenne.....	0	0	0	1	0	1	7.8
Clark.....	0	0	0	0	0	0	0.0
Clay.....	1	0	0	1	1	3	6.6
Cloud.....	0	1	2	1	1	5	9.3
Coffey.....	0	1	0	0	1	2	3.8
Comanche.....	0	0	0	0	0	0	0.0
Cowley.....	4	1	11	4	2	22	9.1
Crawford.....	4	4	2	3	2	15	5.7
Decatur.....	0	0	0	0	0	0	0.0
Dickinson.....	1	4	1	0	0	6	5.5
Doniphan.....	0	0	1	0	0	1	2.3
Douglas.....	3	7	5	8	9	32	5.3
Edwards.....	0	2	1	0	1	4	19.2
Elk.....	0	3	0	0	0	3	21.0
Ellis.....	4	2	1	2	0	9	5.1
Ellsworth.....	1	2	0	0	0	3	12.0
Finney.....	1	11	5	4	8	29	7.0
Ford.....	5	7	13	8	7	40	12.0
Franklin.....	3	1	2	2	1	9	5.0
Geary.....	15	4	12	8	9	48	16.3
Gove.....	0	0	0	0	1	1	6.3
Graham.....	0	1	0	1	0	2	18.0
Grant.....	2	2	0	0	1	5	6.7
Gray.....	0	1	1	1	0	3	6.5
Greeley.....	0	0	0	0	0	0	0.0
Greenwood.....	0	0	2	2	2	6	14.6
Hamilton.....	0	0	1	0	0	1	4.4
Harper.....	0	0	0	0	0	0	0.0
Harvey.....	1	1	0	2	3	7	3.2
Haskell.....	0	0	2	0	0	2	5.4
Hodgeman.....	0	0	0	1	0	1	8.9
Jackson.....	6	1	2	0	1	10	12.1
Jefferson.....	0	2	1	0	1	4	3.7
Jewell.....	0	1	0	0	0	1	8.5
Johnson.....	34	42	43	30	29	178	5.0
Kearny.....	0	0	0	1	1	2	5.3
Kingman.....	0	2	0	0	0	2	4.4
Kiowa.....	0	0	0	0	1	1	5.3
Labette.....	2	4	0	1	4	11	8.1
Lane.....	0	0	0	1	1	2	21.7
Leavenworth.....	6	6	8	8	6	34	7.4
Lincoln.....	1	1	0	1	0	3	15.6
Linn.....	2	2	0	1	0	5	8.8
Logan.....	0	0	0	0	0	0	0.0

Table 36
Infant Deaths by County of Residence
And by Peer Group*
Kansas, 1999-2003

County of Residence	Year					Total Infant Deaths 1999-2003	Infant Death Rate** 1999-2003
	1999	2000	2001	2002	2003		
Lyon.....	1	2	1	2	3	9	3.3
Marion.....	1	1	0	2	0	4	5.9
Marshall.....	0	0	0	1	0	1	1.8
McPherson.....	1	2	2	2	2	9	5.2
Meade.....	0	1	0	0	1	2	5.9
Miami.....	2	5	1	1	3	12	6.2
Mitchell.....	0	0	0	0	0	0	0.0
Montgomery.....	5	1	5	7	8	26	11.3
Morris.....	1	0	0	0	0	1	3.4
Morton.....	0	0	0	0	1	1	3.7
Nemaha.....	1	0	0	0	0	1	1.5
Neosho.....	2	3	0	2	1	8	8.0
Ness.....	0	0	0	1	0	1	6.5
Norton.....	1	0	0	0	1	2	7.5
Osage.....	1	2	1	1	1	6	6.5
Osborne.....	0	0	0	0	0	0	0.0
Ottawa.....	1	0	1	0	0	2	5.6
Pawnee.....	0	0	2	1	0	3	8.7
Phillips.....	0	0	3	0	0	3	9.2
Pottawatomie.....	3	2	2	5	1	13	9.7
Pratt.....	0	0	1	3	4	8	14.4
Rawlins.....	0	0	0	0	0	0	0.0
Reno.....	5	4	8	3	6	26	6.2
Republic.....	0	0	0	0	1	1	4.4
Rice.....	1	0	0	0	0	1	1.6
Riley.....	4	1	3	4	7	19	4.1
Rooks.....	0	0	0	0	1	1	3.3
Rush.....	0	0	0	0	0	0	0.0
Russell.....	0	1	0	1	0	2	5.8
Saline.....	6	4	5	6	4	25	6.7
Scott.....	0	0	0	2	0	2	6.0
Sedgwick.....	62	58	72	76	46	314	8.3
Seward.....	5	4	5	5	3	22	8.4
Shawnee.....	30	23	20	18	18	109	8.9
Sheridan.....	0	0	0	0	0	0	0.0
Sherman.....	0	2	0	1	0	3	7.4
Smith.....	0	0	0	0	0	0	0.0
Stafford.....	0	0	1	0	0	1	4.0
Stanton.....	0	1	0	0	0	1	5.1
Stevens.....	1	0	1	0	1	3	6.7
Sumner.....	0	1	1	1	1	4	2.5
Thomas.....	3	0	0	0	0	3	6.1
Trego.....	0	0	0	0	0	0	0.0
Wabaunsee.....	0	0	0	0	0	0	0.0
Wallace.....	0	0	0	0	0	0	0.0
Washington.....	0	0	1	0	0	1	3.2
Wichita.....	0	0	0	1	0	1	5.9
Wilson.....	1	0	0	0	3	4	6.9
Woodson.....	0	0	0	0	0	0	0.0
Wyandotte.....	32	17	23	28	33	133	9.4
Peer Group							
Frontier	1	10	3	8	7	29	5.6
Rural	25	19	20	19	19	102	6.1
Densely -Settled Rural	38	53	50	41	45	227	7.3
Semi-Urban	56	37	49	54	56	252	6.7
Urban	161	147	163	160	135	766	7.3

* See Technical Notes for Peer Group definition.

** Rate per 1,000 live births

Table 37
Infant Deaths by Cause of Death and Age-Group of Infant
Kansas, 2003

Cause of Death (ICD-10 Code)	Age-Group of Infant						
	Under 1 Day	1-6 Days	Under 7 Days a/	7-27 Days	Under 28 Days b/	28-364 Days	Under 1 Year
All Causes.....	103	35	138	39	177	85	262
Infectious and Parasitic Diseases (A00-B99).....	0	0	0	1	1	0	1
Other Diseases and Disorders (C00-O99).....	0	3	3	1	4	18	22
Certain Conditions Originating in the Perinatal Period (P00-P96).....	85	24	109	20	129	5	134
-Maternal Factors and Compl. of Pregnancy, Labor and Delivery (P00-P04).....	26	1	27	2	29	0	29
-Disorders Relating to Short Gestation and Low Birth Weight (P07).....	43	3	46	0	46	2	48
-Birth Trauma (P10-P15).....	0	0	0	0	0	0	0
-Hypoxia and Birth Asphyxia (P20-P21).....	1	3	4	2	6	0	6
-Respiratory Distress of Newborn (P22).....	1	3	4	3	7	0	7
-Congenital Pneumonia (P23).....	0	0	0	1	1	0	1
-Other Respiratory Conditions of Newborn (P24-P28).....	2	2	4	2	6	0	6
-Bacterial Sepsis of Newborn (P36).....	1	3	4	1	5	0	5
-Omphalitis of Newborn w/wo Mild Hemorrhage (P38).....	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn (P50-P61).....	2	4	6	2	8	1	9
-Other Perinatal Conditions (P05, P08, P29, P35, P37, P39, P70-P96).....	9	5	14	7	21	2	23
Congenital Anomalies (Q00-Q99).....	17	7	24	16	40	12	52
Symptoms and Abnormal Findings (R00-R99).....	1	0	1	1	2	34	36
-Sudden Infant Death Syndrome (R95).....	0	0	0	1	1	32	33
-Other (R00-R94, R96-R99).....	1	0	1	0	1	2	3
External Causes of Mortality (V01-Y89).....	0	1	1	0	1	16	17

a/Hebdomadal Deaths

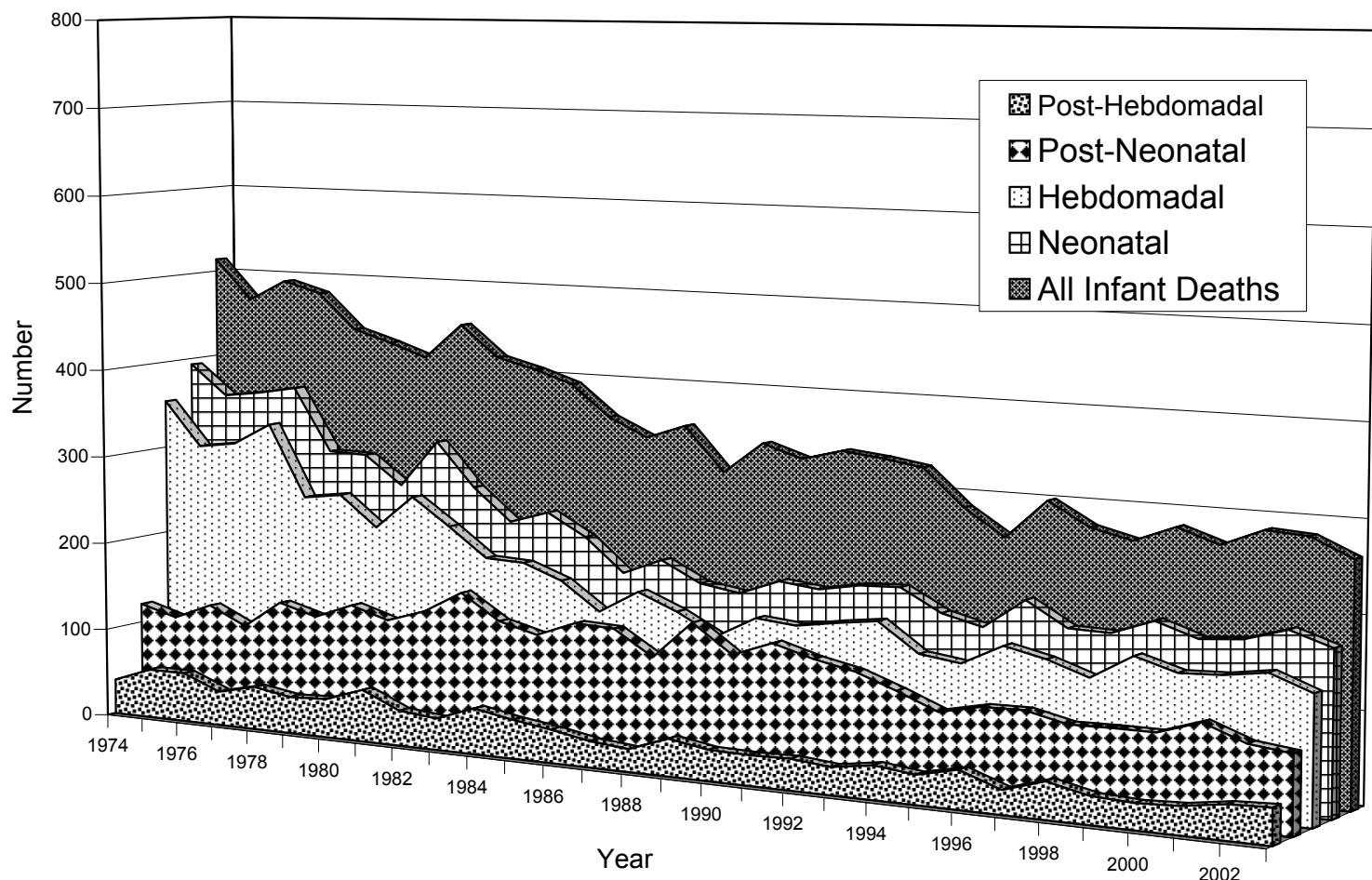
b/Neonatal Deaths

Residence data

Infant Deaths by Component

Kansas, 1974-2003

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Residence Data

Figure 30

Table 38
 Infant Deaths by Component
 By County of Residence
 Kansas, 2003

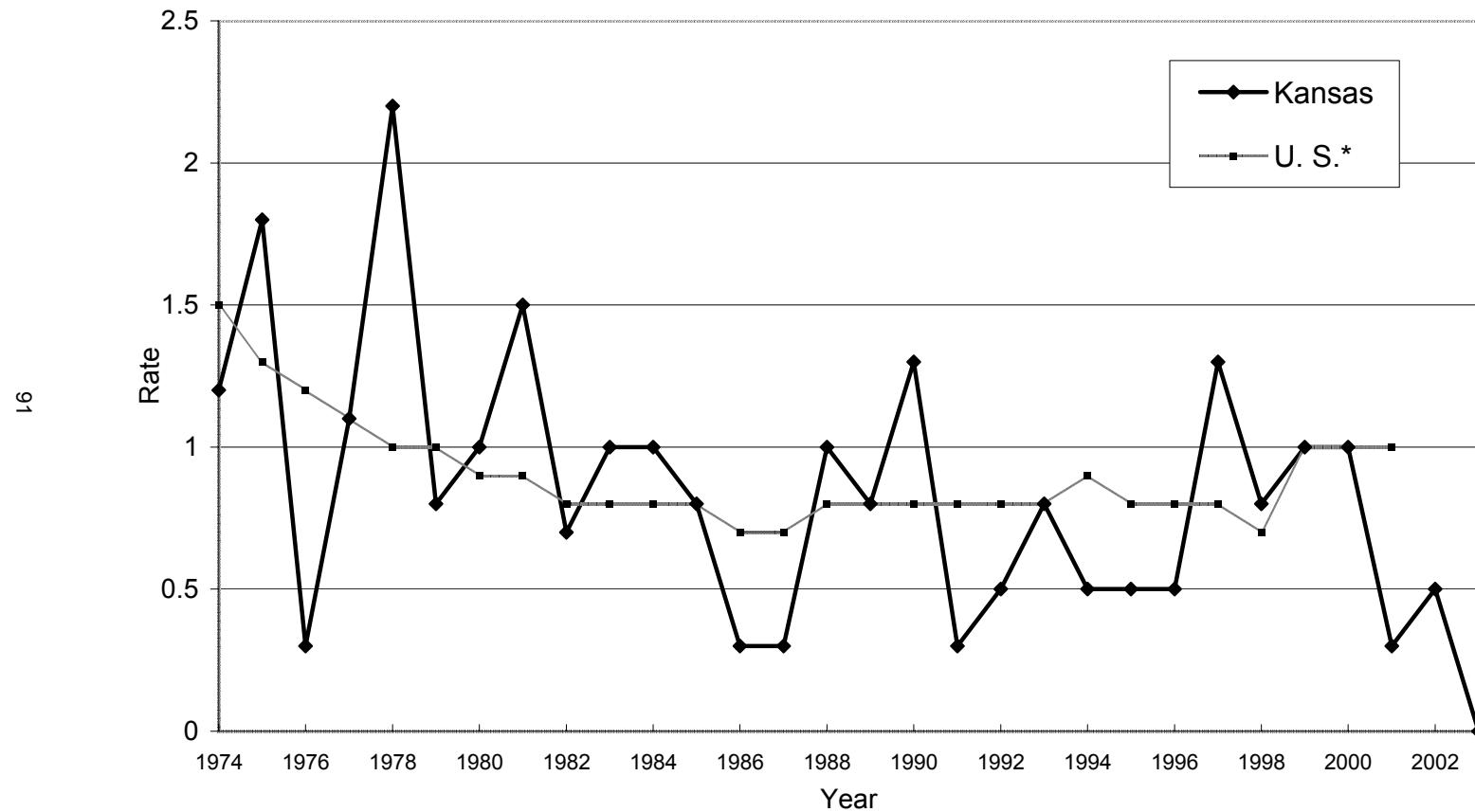
County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Kansas.....	138	39	177	85	262
Allen.....	0	1	1	0	1
Anderson.....	0	0	0	1	1
Atchison.....	0	0	0	0	0
Barber.....	0	0	0	0	0
Barton.....	5	0	5	3	8
Bourbon.....	0	2	2	0	2
Brown.....	0	0	0	0	0
Butler.....	1	0	1	3	4
Chase.....	0	0	0	0	0
Chautauqua.....	0	0	0	0	0
Cherokee.....	2	0	2	1	3
Cheyenne.....	0	0	0	0	0
Clark.....	0	0	0	0	0
Clay.....	0	0	0	1	1
Cloud.....	0	1	1	0	1
Coffey.....	1	0	1	0	1
Comanche.....	0	0	0	0	0
Cowley.....	2	0	2	0	2
Crawford.....	2	0	2	0	2
Decatur.....	0	0	0	0	0
Dickinson.....	0	0	0	0	0
Doniphan.....	0	0	0	0	0
Douglas.....	6	3	9	0	9
Edwards.....	1	0	1	0	1
Elk.....	0	0	0	0	0
Ellis.....	0	0	0	0	0
Ellsworth.....	0	0	0	0	0
Finney.....	3	0	3	5	8
Ford.....	5	0	5	2	7
Franklin.....	1	0	1	0	1
Geary.....	3	3	6	3	9
Gove.....	1	0	1	0	1
Graham.....	0	0	0	0	0
Grant.....	1	0	1	0	1
Gray.....	0	0	0	0	0
Greeley.....	0	0	0	0	0
Greenwood.....	2	0	2	0	2
Hamilton.....	0	0	0	0	0
Harper.....	0	0	0	0	0
Harvey.....	2	1	3	0	3
Haskell.....	0	0	0	0	0
Hodgeman.....	0	0	0	0	0
Jackson.....	1	0	1	0	1
Jefferson.....	0	0	0	1	1
Jewell.....	0	0	0	0	0
Johnson.....	15	4	19	10	29
Kearny.....	0	1	1	0	1
Kingman.....	0	0	0	0	0
Kiowa.....	0	0	0	1	1
Labette.....	1	0	1	3	4
Lane.....	0	0	0	1	1
Leavenworth.....	6	0	6	0	6
Lincoln.....	0	0	0	0	0
Linn.....	0	0	0	0	0
Logan.....	0	0	0	0	0

Table 38
 Infant Deaths by Component
 By County of Residence
 Kansas, 2003

County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Lyon.....	2	0	2	1	3
Marion.....	0	0	0	0	0
Marshall.....	0	0	0	0	0
McPherson.....	0	1	1	1	2
Meade.....	1	0	1	0	1
Miami.....	1	0	1	2	3
Mitchell.....	0	0	0	0	0
Montgomery.....	2	3	5	3	8
Morris.....	0	0	0	0	0
Morton.....	0	1	1	0	1
Nemaha.....	0	0	0	0	0
Neosho.....	0	0	0	1	1
Ness.....	0	0	0	0	0
Norton.....	0	1	1	0	1
Osage.....	0	0	0	1	1
Osborne.....	0	0	0	0	0
Ottawa.....	0	0	0	0	0
Pawnee.....	0	0	0	0	0
Phillips.....	0	0	0	0	0
Pottawatomie.....	1	0	1	0	1
Pratt.....	1	2	3	1	4
Rawlins.....	0	0	0	0	0
Reno.....	2	1	3	3	6
Republic.....	0	0	0	1	1
Rice.....	0	0	0	0	0
Riley.....	4	1	5	2	7
Rooks.....	1	0	1	0	1
Rush.....	0	0	0	0	0
Russell.....	0	0	0	0	0
Saline.....	2	0	2	2	4
Scott.....	0	0	0	0	0
Sedgwick.....	30	5	35	11	46
Seward.....	2	0	2	1	3
Shawnee.....	9	2	11	7	18
Sheridan.....	0	0	0	0	0
Sherman.....	0	0	0	0	0
Smith.....	0	0	0	0	0
Stafford.....	0	0	0	0	0
Stanton.....	0	0	0	0	0
Stevens.....	0	1	1	0	1
Sumner.....	1	0	1	0	1
Thomas.....	0	0	0	0	0
Trego.....	0	0	0	0	0
Wabaunsee.....	0	0	0	0	0
Wallace.....	0	0	0	0	0
Washington.....	0	0	0	0	0
Wichita.....	0	0	0	0	0
Wilson.....	1	0	1	2	3
Woodson.....	0	0	0	0	0
Wyandotte.....	17	5	22	11	33

Maternal Mortality Rates

Kansas and the U.S., 1974-2003



*2002-2003 Rates Unavailable

Rate per 10,000 Live Births

Residence Data

Figure 31

Table 39
Age-Specific Death Rates* by Sex
Kansas, 1994-2003

Age-Group and Sex	Year									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Both Sexes										
Total.....	9.0	9.2	9.2	9.0	9.1	9.2	9.2	9.1	9.2	9.0
Under 1.....	7.8	7.1	8.4	7.5	7.1	7.5	7.0	7.5	7.4	6.8
1-4.....	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
5-14.....	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15-24.....	1.0	0.9	1.0	0.9	0.9	0.8	0.8	0.9	0.9	0.7
25-34.....	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8
35-44.....	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.8	2.0	1.8
45-54.....	3.7	3.9	3.5	3.7	3.6	3.8	3.6	3.9	4.0	4.0
55-64.....	9.6	9.8	10.1	9.7	9.4	9.9	9.3	9.6	9.1	9.0
65-74.....	24.1	24.5	24.4	23.4	23.7	24.0	23.1	22.9	22.4	21.6
75-84.....	55.5	55.9	54.2	54.4	54.1	54.7	55.9	55.7	55.7	54.6
85 and over.....	150.2	154.9	153.4	152.3	154.3	154.2	160.5	154.5	154.6	149.7
Male.....	9.0	9.2	9.1	9.1	8.9	8.9	8.8	8.8	8.8	8.5
Under 1.....	9.0	7.7	9.4	8.3	7.7	8.7	7.5	8.4	7.6	8.0
1-4.....	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4
5-14.....	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2
15-24.....	1.4	1.2	1.4	1.3	1.3	1.2	1.2	1.3	1.2	1.0
25-34.....	1.8	1.6	1.6	1.4	1.5	1.3	1.3	1.3	1.2	1.1
35-44.....	2.1	2.3	2.3	2.0	2.2	2.0	2.1	2.2	2.5	2.3
45-54.....	4.7	4.9	4.3	4.7	4.6	4.6	4.5	4.9	4.9	4.8
55-64.....	12.2	12.3	12.3	12.3	11.5	11.9	11.1	11.9	11.1	11.1
65-74.....	31.6	30.7	30.8	30.3	30.3	30.5	27.8	28.1	27.6	26.4
75-84.....	70.2	73.4	70.3	71.0	68.0	67.8	70.3	69.2	67.3	65.3
85 and over.....	176.6	179.4	178.3	175.1	173.6	170.2	187.4	179.6	174.5	163.6
Female.....	9.1	9.3	9.2	9.0	9.2	9.4	9.5	9.4	9.6	9.4
Under 1.....	6.6	6.5	7.4	6.7	6.4	6.3	6.4	6.5	7.1	5.6
1-4.....	0.4	0.3	0.5	0.2	0.4	0.4	0.4	0.3	0.4	0.4
5-14.....	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1
15-24.....	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4
25-34.....	0.7	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.5	0.5
35-44.....	1.2	1.0	1.1	1.3	1.1	1.2	1.3	1.4	1.5	1.4
45-54.....	2.9	3.0	2.7	2.6	2.6	2.9	2.7	3.0	3.0	3.1
55-64.....	7.3	7.4	8.0	7.2	7.3	8.0	7.6	7.5	7.3	7.0
65-74.....	18.0	19.4	19.2	17.6	18.2	18.7	19.2	18.6	18.1	17.6
75-84.....	46.4	44.9	43.9	43.7	45.1	46.0	46.4	46.9	47.8	47.2
85 and over.....	140.0	145.3	143.5	143.1	146.4	147.5	150.0	144.7	146.5	143.9

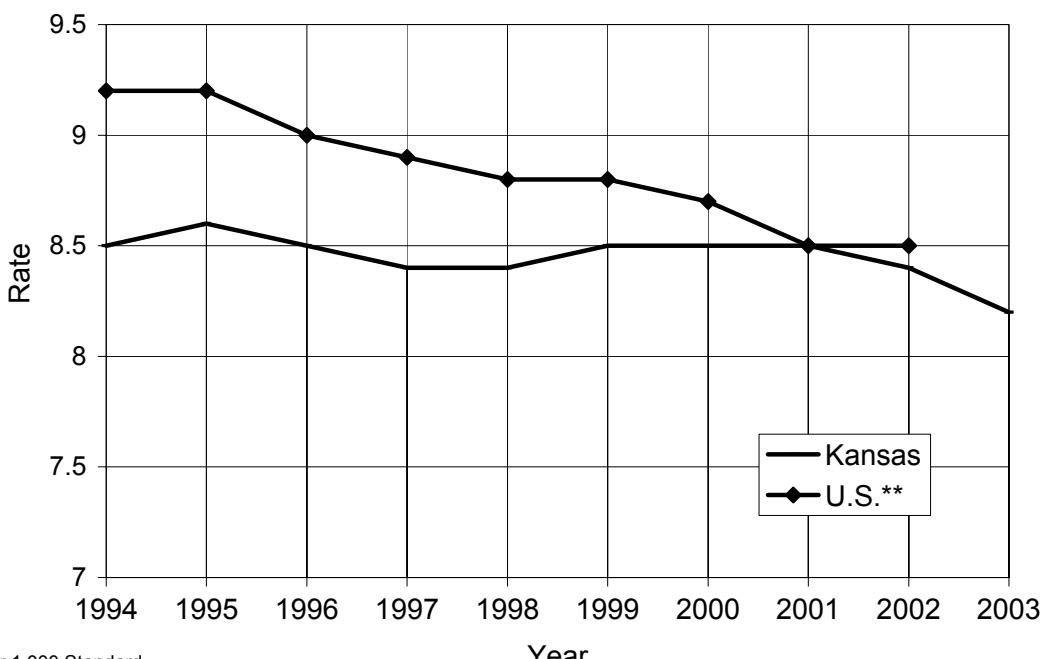
*Rate per 1,000 age-group population

Rates may differ from those published in reports prior to 1999.

Residence data

Age-Adjusted Death Rates*

Kansas and the U.S., 1994-2003



*Rate per 1,000 Standard

U.S. 2000 Population

**2002 Rate Provisional

2003 Rate Not Available

Residence Data

Figure 32

Table 40
Age-Adjusted Death Rates* by Sex
Kansas and the U.S., 1994-2003

Year	Kansas			U.S.**		
	Total	Male	Female	Total	Male	Female
1994.....	8.5	10.6	7.0	9.2	11.6	7.5
1995.....	8.6	10.8	7.1	9.2	11.5	7.5
1996.....	8.5	10.6	7.0	9.0	11.2	7.4
1997.....	8.4	10.5	6.8	8.9	10.9	7.4
1998.....	8.4	10.3	6.9	8.8	10.6	7.3
1999.....	8.5	10.2	7.2	8.8	10.6	7.4
2000.....	8.5	10.3	7.2	8.7	10.5	7.3
2001.....	8.5	10.3	7.1	8.5	10.3	7.2
2002.....	8.4	10.1	7.2	8.5	10.2	7.2
2003.....	8.2	9.7	7.0	n.a.	n.a.	n.a.

* Rate per 1,000 standard U.S. 2000 population (see Technical Notes)

Rates will differ from those published prior to 1999 because they have been recalculated using the 2000 U.S. standard population.

** 2002 Rate Provisional.

Residence data

Table 41
Deaths by Age-Group and Average Age at Death
By County of Residence
Kansas, 2003

County of Residence	Total	Age-Group												Average Age At Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	N.S.	
Kansas.....	24,417	262	61	65	308	294	725	1,533	2,245	3,672	7,040	8,212	0	74.5
Allen.....	211	1	0	0	0	0	3	10	21	30	76	70	0	78.2
Anderson.....	104	1	0	1	0	1	2	3	11	16	32	37	0	76.5
Atchison.....	175	0	1	0	1	2	4	11	18	27	60	51	0	75.8
Barber.....	55	0	0	0	0	0	0	3	8	10	13	21	0	77.5
Barton.....	302	8	0	1	8	1	9	24	20	40	85	106	0	73.3
Bourbon.....	181	2	0	0	0	4	3	5	10	31	63	63	0	77.3
Brown.....	131	0	0	1	0	1	3	8	11	24	39	44	0	76.2
Butler.....	531	4	1	1	9	5	16	29	45	92	160	169	0	74.8
Chase.....	44	0	0	0	0	0	2	0	6	4	18	14	0	78.4
Chautauqua....	64	0	1	0	0	0	0	2	9	11	15	26	0	77.5
Cherokee.....	253	3	0	1	1	0	14	18	25	41	75	75	0	73.7
Cheyenne.....	40	0	0	0	0	0	0	1	1	10	14	14	0	81.3
Clark.....	22	0	0	0	0	0	0	1	1	3	4	5	0	77.1
Clay.....	84	1	0	1	0	1	2	0	8	11	31	29	0	77.0
Cloud.....	170	1	0	0	0	1	3	5	10	16	44	90	0	81.4
Coffey.....	109	1	0	1	2	1	2	5	7	17	34	39	0	75.8
Comanche.....	34	0	0	0	0	0	0	1	0	3	10	20	0	84.9
Cowley.....	432	2	0	1	9	5	11	21	43	62	121	157	0	75.5
Crawford.....	478	2	1	1	9	5	7	18	37	81	139	178	0	76.7
Decatur.....	50	0	0	0	0	0	3	2	2	10	10	23	0	79.6
Dickinson.....	233	0	0	0	0	3	8	11	20	29	73	89	0	78.0
Doniphan.....	90	0	0	0	0	0	2	4	9	15	26	34	0	78.8
Douglas.....	530	9	0	2	8	8	29	27	47	71	146	183	0	73.7
Edwards.....	45	1	0	0	2	1	0	2	2	7	12	18	0	74.5
Elk.....	54	0	0	0	0	0	3	1	3	6	10	31	0	80.5
Ellis.....	245	0	0	1	6	2	3	14	15	37	65	102	0	77.3
Ellsworth.....	69	0	0	0	2	0	2	4	6	5	22	28	0	77.3
Finney.....	205	8	0	4	2	4	8	17	18	33	48	63	0	69.7
Ford.....	248	7	1	1	5	4	6	15	16	29	76	88	0	73.3
Franklin.....	228	1	0	1	3	2	3	7	26	46	60	79	0	76.1
Geary.....	197	9	2	0	7	6	7	18	21	38	41	48	0	66.0
Gove.....	48	1	0	0	1	0	1	1	2	7	14	21	0	78.4
Graham.....	36	0	0	0	1	1	0	2	2	7	8	15	0	77.0
Grant.....	54	1	0	0	1	0	1	5	5	12	18	11	0	72.0
Gray.....	59	0	0	0	0	0	1	3	3	7	18	27	0	80.2
Greeley.....	19	0	0	0	0	0	0	0	1	4	7	7	0	80.3
Greenwood.....	125	2	0	0	5	0	5	6	12	21	21	53	0	74.5
Hamilton.....	24	0	1	0	0	0	0	1	4	4	4	10	0	74.1
Harper.....	106	0	0	0	1	3	0	7	5	17	32	41	0	78.1
Harvey.....	368	3	1	1	2	5	9	17	22	51	121	136	0	77.2
Haskell.....	25	0	0	1	0	0	1	3	2	3	6	9	0	71.3
Hodgeman.....	17	0	0	0	0	0	1	1	1	0	6	8	0	80.4
Jackson.....	121	1	0	0	0	3	2	4	8	28	37	38	0	76.1
Jefferson.....	148	1	0	1	6	0	5	7	16	24	48	40	0	72.7
Jewell.....	55	0	0	0	0	1	0	0	1	13	12	28	0	81.4
Johnson.....	2,847	29	4	6	30	42	84	190	257	375	870	960	0	74.7
Kearny.....	39	1	0	0	0	1	0	2	3	8	10	14	0	75.0
Kingman.....	111	0	0	0	1	0	0	4	9	12	41	44	0	79.7
Kiowa.....	34	1	0	0	0	0	0	1	5	7	8	12	0	75.7
Labette.....	296	4	0	1	1	5	8	18	33	46	85	95	0	74.4
Lane.....	38	1	0	1	2	0	0	1	2	3	15	13	0	74.4
Leavenworth...	550	6	0	1	12	6	21	52	53	93	164	142	0	71.7
Lincoln.....	66	0	0	1	2	0	0	2	3	10	14	34	0	79.3
Linn.....	95	0	1	1	1	0	5	5	10	17	21	34	0	73.4
Logan.....	31	0	0	0	1	0	0	4	4	2	9	11	0	75.5

Table 41
Deaths by Age-Group and Average Age at Death
By County of Residence
Kansas, 2003

County of Residence	Total	Age-Group												Average Age At Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	N.S.	
Lyon.....	278	3	0	1	6	5	10	14	26	29	80	104	0	74.9
Marion.....	165	0	0	0	3	1	2	8	15	18	47	71	0	78.0
Marshall.....	165	0	0	0	1	0	3	5	8	16	44	88	0	82.1
McPherson.....	326	2	2	0	7	0	3	13	21	42	81	155	0	78.7
Meade.....	58	1	1	1	1	0	2	3	6	6	17	20	0	73.1
Miami.....	257	3	0	0	4	3	7	14	28	47	75	76	0	73.9
Mitchell.....	100	0	0	0	0	1	1	9	2	12	27	48	0	79.9
Montgomery....	459	8	2	0	9	2	10	25	34	68	125	176	0	75.7
Morris.....	88	0	1	0	1	0	1	5	6	17	19	38	0	77.7
Morton.....	29	1	0	0	0	0	1	2	2	6	9	8	0	72.5
Nemaha.....	141	0	0	0	2	1	3	4	3	16	41	71	0	81.3
Neosho.....	225	1	0	0	3	3	3	14	14	41	69	77	0	75.8
Ness.....	54	0	0	0	1	0	1	4	1	3	11	33	0	82.3
Norton.....	68	1	0	0	0	0	2	11	2	11	16	25	0	75.6
Osage.....	183	1	0	0	3	0	3	14	20	35	51	56	0	75.2
Osborne.....	78	0	0	0	0	1	0	2	6	11	15	43	0	82.1
Ottawa.....	91	0	0	0	2	1	1	6	7	11	23	40	0	78.0
Pawnee.....	86	0	0	0	1	1	1	5	8	16	22	32	0	76.6
Phillips.....	95	0	0	0	1	0	3	3	9	8	32	39	0	79.6
Pottawatomie..	168	1	1	0	1	2	4	9	17	24	52	57	0	75.4
Pratt.....	108	4	0	0	0	0	2	3	10	13	37	39	0	76.6
Rawlins.....	40	0	0	0	0	0	0	0	0	3	15	22	0	84.4
Reno.....	640	6	0	3	2	2	15	35	67	83	197	230	0	76.6
Republic.....	92	1	0	0	0	0	2	1	2	14	19	53	0	81.8
Rice.....	129	0	0	0	0	1	2	5	10	21	42	48	0	78.6
Riley.....	278	7	0	1	1	3	6	15	30	36	71	108	0	75.0
Rooks.....	70	1	0	0	1	1	0	0	3	11	16	37	0	79.6
Rush.....	47	0	0	0	1	1	0	1	3	4	12	25	0	79.9
Russell.....	103	0	0	0	0	0	1	6	10	19	26	41	0	78.5
Saline.....	502	4	1	2	5	4	15	31	42	81	140	177	0	75.6
Scott.....	52	0	0	0	0	0	0	4	3	4	16	25	0	80.7
Sedgwick.....	3,834	46	22	9	47	56	172	309	428	565	1,111	1,069	0	71.8
Seward.....	141	3	2	0	4	0	7	9	16	23	48	29	0	69.4
Shawnee.....	1,733	18	6	7	18	29	53	118	174	289	514	507	0	73.2
Sheridan.....	35	0	0	0	1	0	0	1	4	9	7	13	0	76.6
Sherman.....	65	0	0	0	0	1	1	5	6	11	19	22	0	76.0
Smith.....	78	0	0	0	3	0	1	2	4	6	21	41	0	80.6
Stafford.....	46	0	0	0	0	1	0	2	2	7	12	22	0	81.1
Stanton.....	19	0	0	0	2	0	0	2	2	2	7	4	0	67.9
Stevens.....	48	1	0	0	1	2	2	3	4	8	11	16	0	71.9
Sumner.....	286	1	0	1	5	4	10	25	23	45	73	99	0	74.2
Thomas.....	62	0	1	1	0	2	1	1	5	14	12	25	0	75.2
Trego.....	36	0	0	0	0	0	2	1	3	5	11	14	0	77.9
Wabaunsee.....	65	0	0	0	1	1	2	4	9	10	16	22	0	74.1
Wallace.....	26	0	0	0	0	0	0	0	2	4	11	9	0	79.9
Washington....	94	0	0	0	2	0	3	2	2	10	26	49	0	81.1
Wichita.....	20	0	0	0	0	0	0	1	1	6	3	9	0	80.3
Wilson.....	147	3	1	1	0	4	2	7	13	24	45	47	0	74.3
Woodson.....	60	0	0	0	2	2	1	4	3	10	15	23	0	74.6
Wyandotte.....	1,521	33	7	6	25	35	64	143	188	271	419	330	0	68.8

Table 42
Deaths by Race/Hispanic Origin and Sex by Age-Group and Average Age at Death
Kansas, 2003

Race and Sex	Total	Age-Group													Average Age At Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.		
All Races.....	24,417	262	61	65	308	294	725	1,533	2,245	3,672	7,040	8,212	0	74.5	
Male.....	11,533	159	33	43	219	206	444	932	1,353	2,045	3,431	2,668	0	70.4	
Female.....	12,884	103	28	22	89	88	281	601	892	1,627	3,609	5,544	0	78.2	
White.....	22,899	216	51	53	263	233	627	1,368	2,020	3,399	6,707	7,962	0	75.2	
Male.....	10,782	130	29	37	186	161	392	838	1,214	1,911	3,289	2,595	0	71.2	
Female.....	12,117	86	22	16	77	72	235	530	806	1,488	3,418	5,367	0	78.8	
Black.....	1,253	40	7	8	36	48	86	129	187	222	279	211	0	64.0	
Male.....	627	26	3	4	24	35	47	74	117	111	122	64	0	59.5	
Female.....	626	14	4	4	12	13	39	55	70	111	157	147	0	68.6	
Other.....	253	6	2	3	9	13	12	36	34	50	51	37	0	62.3	
Male.....	117	3	1	1	9	10	5	20	20	23	18	7	0	55.7	
Female.....	136	3	1	2	0	3	7	16	14	27	33	30	0	68.1	
Not Stated.....	12	0	1	1	0	0	0	0	4	1	3	2	0	60.8	
Male.....	7	0	0	1	0	0	0	0	2	0	2	2	0	64.4	
Female.....	5	0	1	0	0	0	0	0	2	1	1	0	0	55.6	
Hispanic Origin.....	437	45	12	12	30	15	29	44	51	54	95	50	0	53.3	
Male.....	263	28	6	11	22	12	18	32	37	27	49	21	0	49.5	
Female.....	174	17	6	1	8	3	11	12	14	27	46	29	0	59.0	

Residence data

Table 43
Ten Leading Causes of Death by Sex, Race and Hispanic Origin of Decedent
Kansas, 2003

Sex and Race	Total	Causes of Death											
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Chronic Lower Respiratory Diseases	Unintentional Injuries	Alzheimer's Disease	Pneumonia and Influenza	Diabetes Mellitus	Nephritis, Nephrotic Syndrome, Nephrosis	Atherosclerosis	All Other Causes	
Total.....	24,417	6,428	5,285	1,749	1,426	1,076	783	686	669	527	357	5,431	
Male.....	11,533	3,106	2,713	624	694	672	232	278	302	245	116	2,551	
White.....	10,782	2,938	2,554	588	665	616	224	267	269	221	111	2,329	
Black.....	627	140	127	30	23	40	7	11	30	22	5	192	
Native American.....	67	16	12	4	4	7	1	0	1	2	0	20	
Other.....	50	9	20	1	2	8	0	0	2	0	0	8	
Not Stated.....	7	3	0	1	0	1	0	0	0	0	0	2	
Hispanic Origin*.....	263	50	46	14	7	41	2	3	10	8	1	81	
Female.....	12,884	3,322	2,572	1,125	732	404	551	408	367	282	241	2,880	
White.....	12,117	3,158	2,412	1,062	702	369	532	401	320	255	236	2,670	
Black.....	626	140	126	54	21	23	17	5	39	22	5	174	
Native American.....	76	15	13	5	7	5	2	2	5	3	0	19	
Other.....	60	8	20	4	2	6	0	0	3	0	0	17	
Not Stated.....	5	1	1	0	0	1	0	0	0	2	0	0	
Hispanic Origin*.....	174	31	31	12	3	6	4	6	8	7	3	63	

* Hispanic origin can be of any race.

Residence data

Table 44
Selected Causes of Death by Age-Group
And Average Age at Death
Kansas, 2003

Selected Causes of Death (ICD-10 Code)	Total	Age-Group												Average Age at Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	
All Causes.....	24,417	262	61	65	308	294	725	1,533	2,245	3,672	7,040	8,212	0	74.5
Selected Causes.....	20,007	83	41	49	277	250	584	1,268	1,936	3,128	5,838	6,553	0	n.a.
Tuberculosis (A16-A19).....	3	0	0	0	0	0	0	1	1	0	0	1	0	65.3
HIV/AIDS (B20-B24).....	52	0	0	0	1	10	18	15	7	1	0	0	0	42.7
Malignant Neoplasms (C00-C97).....	5,285	3	4	7	7	27	134	464	817	1256	1674	892	0	71.7
Diabetes mellitus (E10-E14).....	669	0	0	1	2	3	19	44	101	123	210	166	0	73.8
Alzheimer's Disease (G30).....	783	0	0	0	0	0	0	0	13	53	236	481	0	85.7
Hypertension and Hypertensive Renal Disease (I10,I12).....	175	0	0	0	0	0	2	3	11	16	52	91	0	82.9
Heart Disease (I00-I09,I11,I13,I20-I51).....	6,428	4	2	2	8	22	117	334	511	855	1835	2738	0	79.1
Cerebrovascular Disease (I60-I69).....	1,749	1	0	0	2	8	25	37	80	195	579	822	0	81.5
Atherosclerosis (I70).....	357	0	0	0	0	0	1	3	4	28	90	231	0	86.4
Pneumonia and Influenza (J10-J18).....	686	3	1	0	1	2	7	19	20	55	187	391	0	83.2
Chronic Lower Respiratory Diseases (J40-J47).....	1,426	0	0	0	2	1	5	41	135	322	597	323	0	76.7
Peptic Ulcer (K25-K28).....	31	0	0	0	0	0	0	1	6	3	3	18	0	79.5
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	200	0	0	0	0	3	22	51	47	39	25	13	0	60.6
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27).....	527	3	0	0	1	3	8	12	33	77	173	217	0	79.6
Congenital Anomalies (Q00-Q99).....	99	52	8	5	5	4	5	3	7	4	5	1	0	18.2
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,076	12	23	30	172	96	131	138	101	72	145	156	0	51.3
Suicide (X60-X84,Y87.0).....	344	0	0	3	43	49	67	87	35	24	26	10	0	46.5
Homicide (X85-Y09,Y87.1).....	117	5	3	1	33	22	23	15	7	5	1	2	0	33.9

Residence data

Table 45
Ten Leading Causes of Death by Sex,
Number, Rate and Average Age at Death
Kansas, 2003

Leading Causes of Death (ICD-10 Code)	Number of Deaths			Cause-Specific Death Rate*			Average Age at Death		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Causes.....	24,417	11,533	12,884	896.5	854.1	938.2	74.5	70.4	78.2
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,428	3,106	3,322	236.0	230.0	241.9	79.9	75.7	83.3
Malignant Neoplasms (C00-C97).....	5,285	2,713	2,572	194.1	200.9	187.3	71.7	71.2	72.3
Cerebrovascular Disease (I60-I69).....	1,749	624	1,125	64.2	46.2	81.9	81.5	79.0	82.9
Chronic Lower Respiratory Diseases (J40-J47).....	1,426	694	732	52.4	51.4	53.3	76.7	76.4	77.0
Unintentional Injuries (V01-X59, Y40-Y86,Y88).....	1,076	672	404	39.5	49.8	29.4	51.3	47.3	57.8
Diabetes mellitus (E10-E14).....	669	302	367	24.6	22.4	26.7	73.8	70.4	76.6
Alzheimer's Disease (G30).....	783	232	551	28.7	17.2	40.1	85.7	83.2	86.7
Pneumonia and Influenza (J10-J18).....	686	278	408	25.2	20.6	29.7	83.2	79.6	85.7
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27).....	527	245	282	19.4	18.1	20.5	79.6	77.2	81.7
Atherosclerosis (I70).....	357	116	241	13.1	8.6	17.5	86.4	81.7	88.7

*Rate per 100,000 population

Note: Rates are based on 2002 population estimates from the United States Bureau of the Census.
 Residence data

Table 46
Death Rates* and Age-Adjusted Death Rates**
For Selected Leading Causes of Death
Kansas, 2003

Cause of Death (ICD-10 Code)	Number	Death Rate	Age-Adjusted Death Rate
All Causes.....	24,417	896.5	817.9
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,428	236.0	210.3
Malignant Neoplasms (C00-C97).....	5,285	194.1	184.5
Cerebrovascular Disease (I60-I69).....	1,749	64.2	56.5
Chronic Lower Respiratory Diseases (J40-J47).....	1,426	52.4	48.9
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,076	39.5	37.9
Pneumonia and Influenza (J10-J18).....	686	25.2	21.6
Diabetes mellitus (E10-E14).....	669	24.6	22.9
Alzheimer's Disease (G30).....	783	28.7	24.3
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27).....	527	19.4	17.3
Atherosclerosis (I70).....	357	13.1	11.0
Suicide (X60-X84, Y87.0).....	344	12.6	12.6
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	200	7.3	7.2
Hypertension and Hypertensive Renal Disease (I10, I12).....	175	6.4	5.6
Homicide (X85-Y09, Y87.1).....	117	4.3	4.3
Congenital Anomalies (Q00-Q99).....	99	3.6	3.6
Certain Conditions Originating in the Perinatal Period (P00-P96).....	135	5.0	4.9

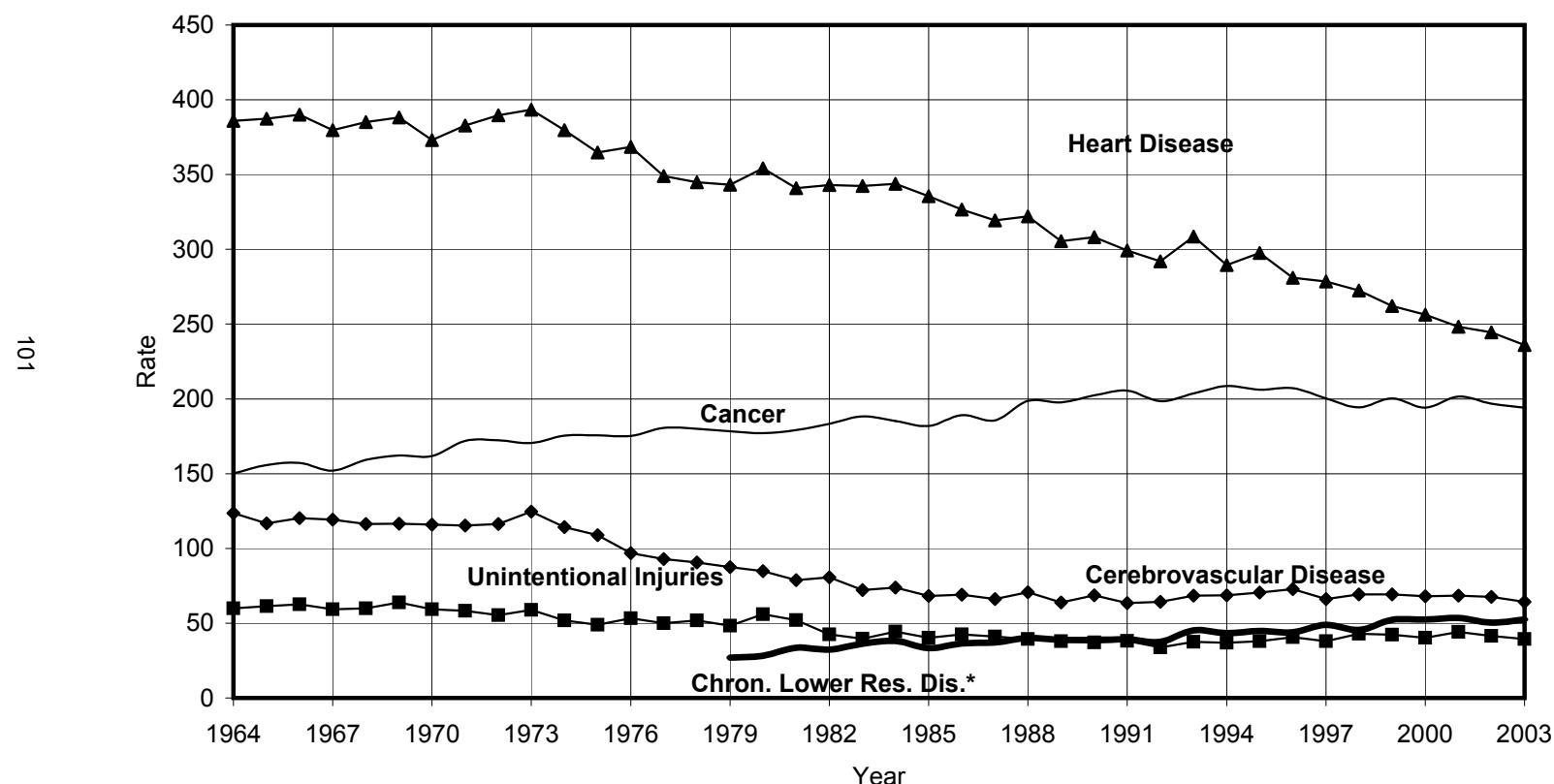
*Rate per 100,000 population

**Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

Residence data

Death Rates for Selected Leading Causes of Death

Kansas, 1964-2003



*Formerly identified as Chronic Obstructive Pulmonary Disease. Reporting began in 1979

Rate per 100,000 Population

Residence Data

Figure 33

Leading Causes of Death by Age-Group

Kansas, 2003

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ALL AGES	
CAUSE	NUMBER
HEART DISEASE	6,428
CANCER	5,285
CEREBROVASC. DIS.	1,749
CHRON. LOWER RESP. DIS.	1,426
UNINTENTIONAL INJURIES	1,076
OTHER CAUSES	8,453
TOTAL	24,417

UNDER 1 YEAR	
CAUSE	NUMBER
CONGENITAL ANOMALIES	52
LENGTH GEST./FETAL GROWTH	48
SIDS	33
MATERNAL FACTORS & COMPL.	29
RESPIRATORY DISORDERS	20
OTHER CAUSES	80
TOTAL	262

1-4 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	23
CONGENITAL ANOMALIES	8
CANCER	4
INFECT./PARASITIC DIS.	4
HOMICIDE	3
OTHER CAUSES	19
TOTAL	61

5-14 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	30
CANCER	7
INFANTILE CEREBRAL PALSY	6
CONGENITAL ANOMALIES	5
SUICIDE	3
OTHER CAUSES	14
TOTAL	65

15-24 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	172
SUICIDE	43
HOMICIDE	33
HEART DISEASE	8
CANCER	7
OTHER CAUSES	45
TOTAL	308

25-44 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	227
CANCER	161
HEART DISEASE	139
SUICIDE	116
HOMICIDE	45
OTHER CAUSES	331
TOTAL	1,019

45-64 YEARS	
CAUSE	NUMBER
CANCER	1,281
HEART DISEASE	845
UNINTENTIONAL INJURIES	239
CHRON. LOWER RESP. DIS.	176
DIABETES	145
OTHER CAUSES	1,092
TOTAL	3,778

65-84 YEARS	
CAUSE	NUMBER
CANCER	2,930
HEART DISEASE	2,690
CHRON. LOWER RESP. DIS.	919
CEREBROVASC. DIS.	774
DIABETES	333
OTHER CAUSES	3,066
TOTAL	10,712

85 YEARS AND OVER	
CAUSE	NUMBER
HEART DISEASE	2,738
CANCER	892
CEREBROVASC. DIS.	822
ALZHEIMER'S DISEASE	481
CHRON. LOWER RESP. DIS.	323
OTHER CAUSES	2,956
TOTAL	8,212

Figure 34

Table 47
Heart Disease Deaths by Age-Group and Sex of Decedent
Kansas, 2003

Causes of Death and Sex of Decedent (ICD Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,428	4	2	2	8	22	117	334	511	855	1,835	2,738
Male.....	3,106	2	1	1	3	15	80	237	378	538	958	893
Female.....	3,322	2	1	1	5	7	37	97	133	317	877	1,845
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease (I00-I09).....	40	0	0	0	0	0	2	2	5	7	13	11
Male.....	13	0	0	0	0	0	0	0	0	3	5	5
Female.....	27	0	0	0	0	0	2	2	5	4	8	6
Hypertensive Heart Disease with or without Renal Disease (I11, I13).....	149	0	0	0	0	2	4	7	4	5	36	91
Male.....	39	0	0	0	0	2	3	5	3	3	11	12
Female.....	110	0	0	0	0	0	1	2	1	2	25	79
Ischemic Heart Disease (I20-I25).....	4,007	0	0	0	1	5	64	221	370	602	1,179	1,565
Male.....	2,098	0	0	0	1	3	44	172	287	392	643	556
Female.....	1,909	0	0	0	0	2	20	49	83	210	536	1,009
Pulmonary Heart Disease and Diseases of Pulmonary Circulation (I26-I28).....	210	2	1	1	3	8	8	17	24	32	58	56
Male.....	102	0	0	1	1	4	4	7	16	16	32	21
Female.....	108	2	1	0	2	4	4	10	8	16	26	35
Other Forms of Heart Disease (I30-I51).....	2,022	2	1	1	4	7	39	87	108	209	549	1,015
Male.....	854	2	1	0	1	6	29	53	72	124	267	299
Female.....	1,168	0	0	1	3	1	10	34	36	85	282	716

Residence data

Table 48
Malignant Neoplasm Deaths
By Site of Lesion, Age-Group and Sex of Decedent
Kansas, 2003

Site of Lesion and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Malignant Neoplasms (All Sites)												
(C00-C97).....	5,285	3	4	7	7	27	134	464	817	1,256	1,674	892
Male.....	2,713	2	1	4	3	15	65	231	432	704	866	390
Female.....	2,572	1	3	3	4	12	69	233	385	552	808	502
Lip, Oral Cavity and Pharynx												
(C00-C14).....	64	0	0	0	0	0	3	12	17	15	13	4
Male.....	38	0	0	0	0	0	0	11	14	7	4	2
Female.....	26	0	0	0	0	0	3	1	3	8	9	2
Digestive Organs												
(C15-C26).....	1,198	0	0	0	0	3	26	109	180	281	364	235
Male.....	640	0	0	0	0	1	18	67	121	171	185	77
Female.....	558	0	0	0	0	2	8	42	59	110	179	158
Respiratory and Intrathoracic Organs												
(C30-C39).....	1,554	0	0	0	0	3	23	129	277	468	503	151
Male.....	925	0	0	0	0	3	11	74	166	292	298	81
Female.....	629	0	0	0	0	0	12	55	111	176	205	70
Bone and Articular Cartilage												
(C40-C41).....	6	0	0	1	0	0	0	0	2	0	0	3
Male.....	2	0	0	1	0	0	0	0	1	0	0	0
Female.....	4	0	0	0	0	0	0	0	1	0	0	3
Skin												
(C43-C44).....	110	0	0	0	1	1	8	17	21	18	28	16
Male.....	70	0	0	0	1	0	5	12	14	12	18	8
Female.....	40	0	0	0	0	1	3	5	7	6	10	8
Mesothelial and Soft Tissue												
(C45-C49).....	51	0	0	0	1	2	1	5	6	10	17	9
Male.....	29	0	0	0	0	0	1	1	2	4	7	5
Female.....	22	0	0	0	1	1	0	3	2	3	8	4
Breast												
(C50).....	430	0	0	0	0	2	22	62	78	83	101	82
Male.....	3	0	0	0	0	0	0	0	1	0	1	1
Female.....	427	0	0	0	0	2	22	62	77	83	100	81
Genital Organs												
(C51-C63).....	527	0	0	0	2	2	12	33	53	98	191	136
Male.....	273	0	0	0	1	1	1	5	14	48	108	95
Female.....	254	0	0	0	1	1	11	28	39	50	83	41
Urinary Tract												
(C64-C68).....	243	0	0	0	0	0	5	13	30	57	90	48
Male.....	152	0	0	0	0	0	5	10	16	35	57	29
Female.....	91	0	0	0	0	0	0	3	14	22	33	19
Eye and Adnexa												
(C69).....	2	0	0	0	0	0	0	0	1	0	1	0
Male.....	1	0	0	0	0	0	0	0	1	0	0	0
Female.....	1	0	0	0	0	0	0	0	0	0	1	0
Meninges, Brain and Other Parts of Central Nervous System												
(C70-C72).....	145	1	1	2	1	5	11	17	30	32	36	9
Male.....	79	1	0	0	1	3	9	14	15	17	17	2
Female.....	66	0	1	2	0	2	2	3	15	15	19	7
Thyroid and Other Endocrine Glands												
(C73-C75).....	18	0	1	1	0	0	0	0	1	4	7	4
Male.....	7	0	1	1	0	0	0	0	0	2	2	1
Female.....	11	0	0	0	0	0	0	0	1	2	5	3
Other and Unspecified Sites												
(C76-C80, C97).....	335	0	0	0	0	1	6	22	53	60	110	83
Male.....	181	0	0	0	0	0	5	12	31	35	58	40
Female.....	154	0	0	0	0	1	1	10	22	25	52	43
Leukemia												
(C91-C95).....	231	2	2	3	1	4	6	19	20	58	77	39
Male.....	127	1	0	2	0	3	3	12	10	37	41	18
Female.....	104	1	2	1	1	1	3	7	10	21	36	21
Other Lymphoid, Hematopoietic, and Related Tissue												
(C81-C90, C96).....	371	0	0	0	1	4	11	26	48	72	136	73
Male.....	186	0	0	0	0	3	7	12	24	41	68	31
Female.....	185	0	0	0	1	1	4	14	24	31	68	42

Table 49
Cerebrovascular Disease Deaths by Age-Group and Sex of Decedent
Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Cerebrovascular Disease (I60-I69).....	1,749	1	0	0	2	8	25	37	80	195	579	822
Male.....	624	0	0	0	0	4	9	15	46	92	238	220
Female.....	1,125	1	0	0	2	4	16	22	34	103	341	602
Subarachnoid Hemorrhage (I60).....	55	0	0	0	1	2	6	6	7	12	15	6
Male.....	16	0	0	0	0	0	2	2	2	3	4	3
Female.....	39	0	0	0	1	2	4	4	5	9	11	3
Intracerebral and Other Intracranial Hemorrhage (I61-I62).....	267	1	0	0	1	2	8	13	24	48	97	73
Male.....	120	0	0	0	0	1	2	8	12	26	45	26
Female.....	147	1	0	0	1	1	6	5	12	22	52	47
Cerebral Infarction (I63).....	114	0	0	0	0	1	1	5	2	12	41	52
Male.....	47	0	0	0	0	1	0	1	1	7	22	15
Female.....	67	0	0	0	0	0	1	4	1	5	19	37
Stroke, Not Specified as Hemorrhage or Infarction (I64).....	967	0	0	0	0	2	10	10	38	95	329	483
Male.....	328	0	0	0	0	2	5	4	25	42	131	119
Female.....	639	0	0	0	0	0	5	6	13	53	198	364
Other Cerebrovascular Diseases (I67, I69).....	346	0	0	0	0	1	0	3	9	28	97	208
Male.....	113	0	0	0	0	0	0	0	6	14	36	57
Female.....	233	0	0	0	0	1	0	3	3	14	61	151

Residence data

Table 50
Unintentional Injury Deaths by Age-Group and Sex of Decedent
Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										85 & Over
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,076	12	23	30	172	96	131	138	101	72	145	156
Male.....	672	6	15	21	122	73	93	90	70	42	75	65
Female.....	404	6	8	9	50	23	38	48	31	30	70	91
Motor-Vehicle (*).....	474	3	4	24	137	67	61	55	50	23	38	12
Male.....	320	2	3	17	95	51	46	31	33	14	19	9
Female.....	154	1	1	7	42	16	15	24	17	9	19	3
Water Transport (V90-V94).....	3	0	0	0	1	0	1	0	1	0	0	0
Male.....	2	0	0	0	1	0	1	0	0	0	0	0
Female.....	1	0	0	0	0	0	0	0	1	0	0	0
Air and Space Transport (V95-V97).....	8	0	0	0	0	0	1	3	2	2	0	0
Male.....	7	0	0	0	0	0	1	3	2	1	0	0
Female.....	1	0	0	0	0	0	0	0	0	1	0	0
Falls (W00-W19).....	184	1	1	0	1	1	7	12	13	10	61	77
Male.....	84	0	0	0	1	0	4	9	6	4	32	28
Female.....	100	1	1	0	0	1	3	3	7	6	29	49
Inanimate Mechanical Forces (W20-W49).....	36	0	1	0	6	1	5	4	6	6	4	3
Male.....	31	0	1	0	5	1	5	4	6	4	3	2
Female.....	5	0	0	0	1	0	0	0	0	2	1	1
Drowning and Submersion (W65-W74).....	26	2	5	0	4	4	2	3	2	1	1	2
Male.....	21	1	4	0	3	3	2	2	2	1	1	2
Female.....	5	1	1	0	1	1	0	1	0	0	0	0
Other Accidental Threats to Breathing (W75-W84).....	68	5	3	1	2	2	3	1	4	12	12	23
Male.....	37	3	1	1	2	1	3	1	4	7	5	9
Female.....	31	2	2	0	0	1	0	0	0	5	7	14
Electric Current, Radiation and Air Temperature/Pressure (W85-W99).....	5	0	0	0	0	1	0	2	1	0	1	0
Male.....	4	0	0	0	0	1	0	2	1	0	0	0
Female.....	1	0	0	0	0	0	0	0	0	0	1	0
Smoke, Fire and Flames (X00-X09).....	35	1	5	2	2	0	3	7	3	4	7	1
Male.....	21	0	5	1	1	0	1	5	3	2	3	0
Female.....	14	1	0	1	1	0	2	2	0	2	4	1
Forces of Nature (X30-X39).....	14	0	1	0	0	0	0	4	0	2	4	3
Male.....	5	0	0	0	0	0	0	0	0	1	3	1
Female.....	9	0	1	0	0	0	0	4	0	1	1	2
Poisonings (X40-X49).....	123	0	3	2	14	16	42	35	8	1	1	1
Male.....	82	0	1	1	11	12	26	23	6	1	1	0
Female.....	41	0	2	1	3	4	16	12	2	0	0	1
Other Unintentional Injuries (**).....	100	0	0	1	5	4	6	12	11	11	16	34
Male.....	58	0	0	1	3	4	4	10	7	7	8	14
Female.....	42	0	0	0	2	0	2	2	4	4	8	20

* V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86,
V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

** V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3,V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9,
V87.9, V88.9, V89.1, V89.3, V89.9, V98-V99, W50-W64, X10-X29, X50-X59, Y40-Y86, Y88

Residence data

Table 51
Selected Chronic Disease Deaths by Age-Group and Sex of Decedent
Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Total.....	3,385	3	0	1	5	10	57	155	337	608	1,150	1,059
Male.....	1,554	3	0	0	5	5	38	97	180	317	539	370
Female.....	1,831	0	0	1	0	5	19	58	157	291	611	689
Diabetes mellitus (E10-E14).....	669	0	0	1	2	3	19	44	101	123	210	166
Male.....	302	0	0	0	2	2	13	21	62	65	85	52
Female.....	367	0	0	1	0	1	6	23	39	58	125	114
Hypertension and Hypertensive Renal Disease												
(I10, I12).....	175	0	0	0	0	0	2	3	11	16	52	91
Male.....	58	0	0	0	0	0	2	2	6	8	18	22
Female.....	117	0	0	0	0	0	0	1	5	8	34	69
Atherosclerosis (I70).....	357	0	0	0	0	0	1	3	4	28	90	231
Male.....	116	0	0	0	0	0	1	3	3	14	42	53
Female.....	241	0	0	0	0	0	0	0	1	14	48	178
Chronic Lower Respiratory Diseases (J40-J47).....	1,426	0	0	0	2	1	5	41	135	322	597	323
Male.....	694	0	0	0	2	0	2	20	61	163	294	152
Female.....	732	0	0	0	0	1	3	21	74	159	303	171
Peptic Ulcer (K25-K28).....	31	0	0	0	0	0	0	1	6	3	3	18
Male.....	11	0	0	0	0	0	0	1	3	3	0	4
Female.....	20	0	0	0	0	0	0	0	3	0	3	14
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	200	0	0	0	0	3	22	51	47	39	25	13
Male.....	128	0	0	0	0	1	15	40	32	26	10	4
Female.....	72	0	0	0	0	2	7	11	15	13	15	9
Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27).....	527	3	0	0	1	3	8	12	33	77	173	217
Male.....	245	3	0	0	1	2	5	10	13	38	90	83
Female.....	282	0	0	0	0	1	3	2	20	39	83	134

Residence data

Table 52
Occupation of Decedent by
Selected Causes of Death
Kansas, 2003

Occupation of Decedent	Total	Selected Causes of Death												
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hypertension	All Other Causes	
Total.....	24,417	6,428	5,285	1,749	1,076	1,426	344	357	200	117	31	175	7,229	
Housewives.....	5,483	1,546	911	533	111	314	21	113	29	6	13	52	1,834	
Managerial and Professional Specialty.....	4,297	1,128	1,122	310	151	204	56	64	34	8	2	29	1,189	
Technical, Sales and Administrative Support.....	4,375	1,089	1,036	303	160	257	63	83	26	18	4	30	1,306	
Operators, Fabricators and Laborers.....	2,819	728	647	170	177	196	77	29	44	30	3	16	702	
Farming, Forestry and Fishing.....	1,655	523	360	110	79	92	10	12	2	2	0	10	455	
Precision Production, Craft and Repair.....	2,297	606	592	124	120	172	48	27	33	12	4	13	546	
Service Workers.....	1,932	514	405	141	82	134	29	21	21	11	3	15	556	
No Occupation.....	394	94	39	14	34	23	9	3	5	9	1	4	159	
Students.....	185	7	10	1	96	1	20	0	0	9	0	0	41	
Children Under 5 Years.....	323	6	7	1	35	0	0	0	0	8	0	0	266	
Other and N.S.....	657	187	156	42	31	33	11	5	6	4	1	6	175	

Table 53
Type of Industry of Decedent's Occupation by Selected Causes of Death
Kansas, 2003

Type of Industry	Total	Selected Causes of Death											
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hyper-tension	All Other Causes
Total.....	24,417	6,428	5,285	1,749	1,076	1,426	344	357	200	117	31	175	7,229
Professional Services.....	3,677	954	855	302	128	171	43	41	29	8	2	31	1,113
Agriculture, Forestry and Fisheries.....	1,685	530	366	113	81	96	12	13	1	2	0	9	462
Manufacturing.....	2,760	701	713	163	131	175	54	44	37	10	2	18	712
Retail Trade.....	2,302	610	483	161	106	146	32	46	12	15	2	18	671
Transportation, Communications and Public Utilities.....	1,737	468	427	110	75	109	32	23	18	9	4	10	452
Construction.....	1,371	351	336	73	92	106	54	12	26	15	2	5	299
Public Administration.....	1,007	245	260	65	31	79	7	19	11	2	1	6	281
Business and Repair Services.....	625	150	163	39	36	39	15	7	8	10	0	0	158
Personal Services.....	523	140	111	33	25	29	7	11	6	7	1	5	148
Finance, Insurance and Real Estate.....	769	198	198	45	19	48	14	16	8	0	1	5	217
Wholesale Trade.....	587	147	167	33	22	34	8	7	1	1	0	5	162
Mining.....	210	62	45	11	15	16	1	0	3	2	1	1	53
Entertainment and Recreation Services.....	44	14	13	0	2	3	0	0	0	0	0	0	12
Other and N.S.*	7,120	1,858	1,148	601	313	375	65	118	40	36	15	62	2,489

*This category includes housewives, military personnel, students, children and those who were never employed.

Residence data

Table 54
Selected Causes of Death and Years of Potential Life Lost (YPLL)
Before Life Expectancy*
Kansas, 2003

CAUSE OF DEATH (ICD-10)	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate** Years Lost By Cause
Total Deaths	24,417	191,819	100.0	70.6
Heart Disease (I00-I09, I11, I13, I20-I51)	6,428	29,875	15.6	11.0
Cancer (C00-C97)	5,285	42,703	22.3	15.7
Cerebrovascular Disease (I60-I69)	1,749	5,090	2.7	1.9
Chronic Lower Respiratory Dis. (J40-J47)	1,426	5,854	3.0	2.1
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	1,076	30,023	15.6	11.0
Alzheimer's Disease (G30)	783	538	0.3	0.2
Pneumonia and Influenza (J10-J18)	686	1,969	1.0	0.7
Diabetes (E10-E14)	669	4,811	2.5	1.8
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	527	2,101	1.1	0.8
Atherosclerosis (I70)	357	391	0.2	0.1
Suicide (X60-X84, Y87.0)	344	10,664	5.6	3.9
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	200	3,454	1.8	1.3
Homicide (X85-Y09, Y87.1)	117	5,049	2.6	1.9
All Other Causes	4,770	49,297	25.7	18.1
Male Deaths	11,533	104,957	100.0	77.7
Heart Disease (I00-I09, I11, I13, I20-I51)	3,106	17,522	16.7	13.0
Cancer (C00-C97)	2,713	18,632	17.7	13.8
Cerebrovascular Disease (I60-I69)	624	1,843	1.7	1.4
Chronic Lower Respiratory Dis. (J40-J47)	694	2,230	2.1	1.7
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	672	19,587	18.7	14.5
Alzheimer's Disease (G30)	232	212	0.2	0.2
Pneumonia and Influenza (J10-J18)	278	844	0.8	0.6
Diabetes (E10-E14)	302	2,381	2.3	1.8
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	245	1,113	1.1	0.8
Atherosclerosis (I70)	116	215	0.2	0.2
Suicide (X60-X84, Y87.0)	269	7,737	7.4	5.7
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	128	2,184	2.1	1.6
Homicide (X85-Y09, Y87.1)	83	3,434	3.3	2.5
All Other Causes	2,071	27,023	25.7	20.0
Female Deaths	12,884	90,532	100.0	65.9
Heart Disease (I00-I09, I11, I13, I20-I51)	3,322	12,672	14.0	9.2
Cancer (C00-C97)	2,572	25,316	28.0	18.4
Cerebrovascular Disease (I60-I69)	1,125	4,053	4.5	3.0
Chronic Lower Respiratory Dis. (J40-J47)	732	4,320	4.8	3.1
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	404	9,850	10.9	7.2
Alzheimer's Disease (G30)	551	694	0.8	0.5
Pneumonia and Influenza (J10-J18)	408	1,130	1.2	0.8
Diabetes (E10-E14)	367	2,612	2.9	1.9
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	282	1,155	1.3	0.8
Atherosclerosis (I70)	241	270	0.3	0.2
Suicide (X60-X84, Y87.0)	75	2,523	2.8	1.8
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	72	1,135	1.2	0.8
Homicide (X85-Y09, Y87.1)	34	1,484	1.6	1.1
All Other Causes	2,699	23,318	25.7	17.0

*Average remaining lifetime values compiled by the KDHE Center for Health and Environmental Statistics.

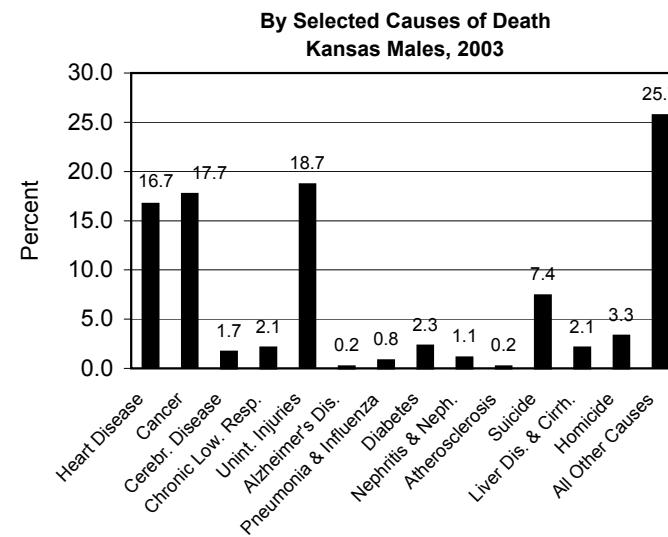
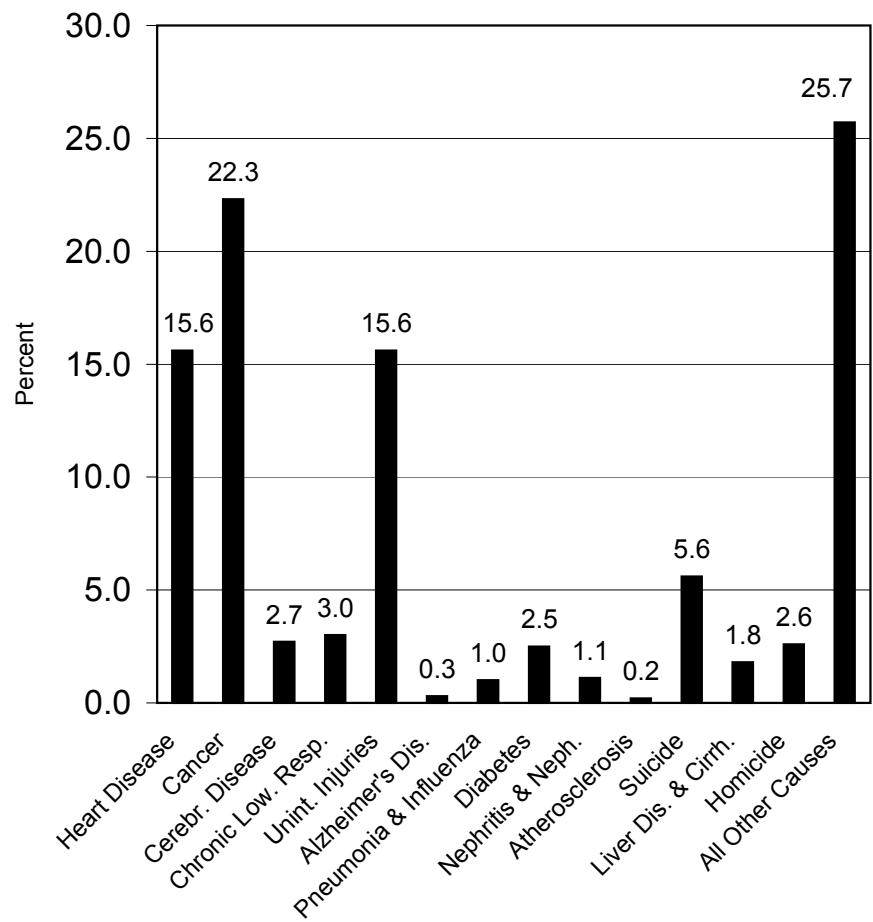
Total YPLL for Male and Female deaths will not add to the Total due to the different life expectancies used to calculate YPLL for males and females.

**Rate per 1,000 population

Residence data

Percent Years of Potential Life Lost

By Selected Causes of Death Kansas, 2003



By Selected Causes of Death Kansas Females, 2003

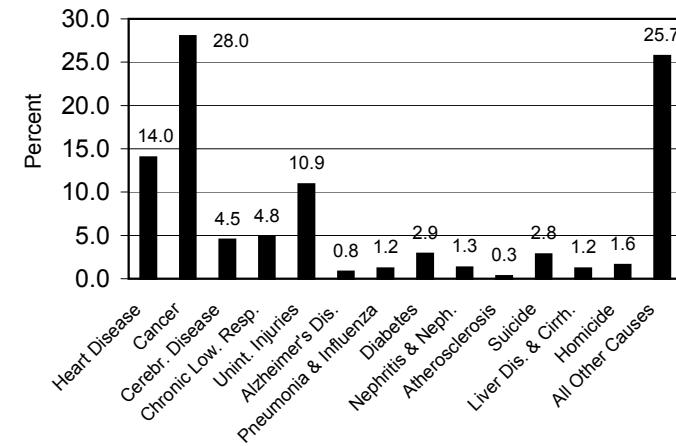


Figure 35

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	All Causes	Selected Causes of Death (ICD-10)							
		Tuber-culosis (A16-A19)	Residual Infect. & Para-sitic Dis. (A00-A15, A20-B99)	All Malignant Neoplasms (C00-C97)	Malignant Neoplasms of Digestive Organs (C15-C26)	Malignant Neoplasms of Respiratory and Intrathoracic Organs (C30-C39)	Malignant Neoplasm of Breast (C50)	Malignant Neoplasms of Genital Organs (C51-C63)	Malignant Neoplasms of Urinary Tract (C64-C68)
Kansas.....	24,417	3	487	5,285	1,198	1,554	430	527	243
Allen.....	211	0	1	48	13	16	4	3	1
Anderson.....	104	0	1	25	7	6	4	7	1
Atchison.....	175	0	9	37	7	9	4	2	1
Barber.....	55	0	2	10	2	4	0	2	0
Barton.....	302	0	6	64	11	20	4	7	7
Bourbon.....	181	0	3	38	11	11	3	3	2
Brown.....	131	0	3	40	12	11	4	0	3
Butler.....	531	0	6	128	29	35	8	11	5
Chase.....	44	0	1	16	5	5	2	2	1
Chautauqua.....	64	0	2	14	2	2	0	5	0
Cherokee.....	253	0	1	55	17	16	3	4	0
Cheyenne.....	40	0	1	8	2	0	0	1	1
Clark.....	22	0	0	4	2	1	0	0	0
Clay.....	84	0	1	15	3	2	2	0	0
Cloud.....	170	0	1	32	9	6	0	8	3
Coffey.....	109	0	0	34	10	9	2	1	1
Comanche.....	34	0	0	7	2	2	0	1	0
Cowley.....	432	0	10	104	14	35	10	8	10
Crawford.....	478	0	7	106	30	26	6	7	4
Decatur.....	50	0	2	6	1	0	0	0	0
Dickinson.....	233	0	1	52	14	10	2	4	4
Doniphan.....	90	0	0	23	9	6	1	1	2
Douglas.....	530	0	7	107	20	33	7	15	3
Edwards.....	45	0	2	10	1	2	1	2	0
Elk.....	54	0	1	9	5	1	1	1	0
Ellis.....	245	0	2	49	11	17	5	5	1
Ellsworth.....	69	0	3	7	4	1	0	0	0
Finney.....	205	0	4	39	10	9	6	1	3
Ford.....	248	0	2	40	10	13	5	3	0
Franklin.....	228	0	6	57	10	20	6	8	0
Geary.....	197	0	8	37	8	11	2	7	0
Gove.....	48	0	0	9	1	2	1	2	2
Graham.....	36	0	0	8	1	1	2	2	0
Grant.....	54	0	2	12	0	4	0	1	2
Gray.....	59	0	3	8	3	2	1	0	0
Greeley.....	19	0	0	5	1	0	0	0	1
Greenwood.....	125	0	3	19	7	5	2	0	0
Hamilton.....	24	0	0	8	1	1	2	1	0
Harper.....	106	0	2	26	9	10	1	2	1
Harvey.....	368	0	5	68	5	16	9	9	3
Haskell.....	25	0	1	6	3	1	0	1	0
Hodgeman.....	17	0	0	3	1	0	0	0	0
Jackson.....	121	0	1	35	8	15	1	3	1
Jefferson.....	148	0	2	30	4	10	2	2	3
Jewell.....	55	0	1	9	1	2	0	0	2
Johnson.....	2,847	2	71	678	177	194	61	55	28
Kearny.....	39	0	1	5	1	2	1	1	0
Kingman.....	111	0	1	15	1	6	2	2	1
Kiowa.....	34	0	2	5	2	2	1	0	0
Labette.....	296	1	7	68	19	22	8	4	5
Lane.....	38	0	1	5	2	2	0	1	0
Leavenworth.....	550	0	10	120	16	43	9	11	6
Lincoln.....	66	0	2	13	4	4	0	3	1
Linn.....	95	0	3	21	4	8	1	3	2
Logan.....	31	0	0	4	0	2	0	1	0

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	All Causes	Selected Causes of Death (ICD-10)							
		Tuber-culosis (A16-A19)	Residual Infect. & Para-sitic Dis. (A00-A15, A20-B99)	All Malignant Neoplasms (C00-C97)	Malignant Neoplasms of Digestive Organs (C15-C26)	Malignant Neoplasms of Respiratory and Intrathoracic Organs (C30-C39)	Malignant Neoplasm of Breast (C50)	Malignant Neoplasms of Genital Organs (C51-C63)	Malignant Neoplasms of Urinary Tract (C64-C68)
Lyon.....	278	0	2	46	8	15	7	7	1
Marion.....	165	0	0	30	8	15	0	3	0
Marshall.....	165	0	1	33	12	5	4	2	3
McPherson.....	326	0	4	47	8	18	5	7	1
Meade.....	58	0	1	11	4	2	2	1	0
Miami.....	257	0	5	41	15	9	5	2	2
Mitchell.....	100	0	2	17	7	6	0	2	2
Montgomery.....	459	0	8	107	21	35	10	13	6
Morris.....	88	0	2	27	7	4	0	2	1
Morton.....	29	0	1	5	1	0	0	1	1
Nemaha.....	141	0	2	22	3	6	2	3	3
Neosho.....	225	0	3	45	6	22	1	4	1
Ness.....	54	0	1	11	4	2	0	1	0
Norton.....	68	0	1	12	5	3	1	0	2
Osage.....	183	0	5	37	8	18	2	1	2
Osborne.....	78	0	1	15	4	6	1	1	1
Ottawa.....	91	0	1	22	8	3	3	5	0
Pawnee.....	86	0	2	12	6	2	1	1	0
Phillips.....	95	0	3	16	4	3	1	4	0
Pottawatomie.....	168	0	3	38	8	6	5	5	1
Pratt.....	108	0	1	23	4	4	4	6	3
Rawlins.....	40	0	1	12	2	4	2	2	0
Reno.....	640	0	8	124	24	39	12	17	5
Republic.....	92	0	0	13	4	3	1	3	0
Rice.....	129	0	4	17	1	7	1	3	2
Riley.....	278	0	8	65	16	23	3	3	2
Rooks.....	70	0	1	11	4	1	0	1	0
Rush.....	47	0	1	10	2	2	0	1	1
Russell.....	103	0	4	22	4	5	4	0	3
Saline.....	502	0	14	120	29	37	4	5	8
Scott.....	52	0	1	6	1	0	0	0	1
Sedgwick.....	3,834	0	90	887	182	236	86	96	37
Seward.....	141	0	1	28	6	14	2	3	1
Shawnee.....	1,733	0	23	375	84	135	21	33	19
Sheridan.....	35	0	0	8	3	1	0	1	2
Sherman.....	65	0	0	14	3	3	2	1	0
Smith.....	78	0	1	18	5	5	1	2	1
Stafford.....	46	0	1	7	5	1	0	0	0
Stanton.....	19	0	0	5	0	1	1	1	1
Stevens.....	48	0	1	10	1	2	1	1	0
Sumner.....	286	0	5	57	11	14	6	6	5
Thomas.....	62	0	0	12	1	6	0	1	0
Trego.....	36	0	1	7	1	1	0	1	0
Wabaunsee.....	65	0	1	10	4	3	1	0	0
Wallace.....	26	0	0	4	3	0	0	0	1
Washington.....	94	0	1	14	4	3	0	3	1
Wichita.....	20	0	0	4	2	1	0	0	0
Wilson.....	147	0	3	27	4	6	4	5	1
Woodson.....	60	0	1	15	4	3	3	0	0
Wyandotte.....	1,521	0	56	365	75	121	25	44	11

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)									
	Leukemia (C91-C95)	Other Malignant Neoplasms (C00-C14, C40-C49, C69-C90, C96-C97)	Diabetes mellitus (E10-E14)	Alzheimer's Disease (G30)	Major Cardio-vascular Diseases (I00-I78)	Diseases of Heart (I00-I09, I11, I13, I20-I51)	Rheumatic Fever and Rheumatic Heart Diseases (I00-I09)	Hypertensive Heart Disease w, w/out Renal Disease (I11, I13)	Ischemic Heart Diseases (I20-I25)	Other Heart Diseases (I26-I51)
Kansas.....	231	1,102	669	783	8,938	6,428	40	149	4,007	2,232
Allen.....	0	11	8	9	93	77	0	1	57	19
Anderson.....	0	0	2	3	40	31	0	0	20	11
Atchison.....	4	10	6	4	64	42	0	0	31	11
Barber.....	1	1	0	3	22	17	0	1	11	5
Barton.....	3	12	6	7	112	71	0	3	45	23
Bourbon.....	1	7	5	2	75	58	0	1	41	16
Brown.....	0	10	4	2	49	39	0	0	26	13
Butler.....	2	38	17	17	201	139	0	8	69	62
Chase.....	0	1	1	2	11	9	0	0	3	6
Chautauqua.....	1	4	0	5	23	18	0	0	13	5
Cherokee.....	0	15	12	3	117	95	2	1	77	15
Cheyenne.....	1	3	0	1	15	12	0	0	8	4
Clark.....	0	1	0	0	12	11	0	1	7	3
Clay.....	1	7	2	4	30	20	0	0	10	10
Cloud.....	1	5	2	3	69	49	0	1	32	16
Coffey.....	2	9	3	1	37	27	0	0	15	12
Comanche.....	0	2	0	0	11	11	1	0	5	5
Cowley.....	6	21	18	11	152	112	1	2	73	36
Crawford.....	8	25	11	19	192	148	3	4	111	30
Decatur.....	1	4	1	1	15	13	0	0	8	5
Dickinson.....	7	11	4	6	99	72	0	1	44	27
Doniphan.....	0	4	5	1	36	28	1	2	19	6
Douglas.....	4	25	20	17	184	135	0	3	79	53
Edwards.....	0	4	1	0	14	12	0	0	8	4
Elk.....	1	0	0	5	25	16	0	0	14	2
Ellis.....	2	8	11	13	88	57	1	1	34	21
Ellsworth.....	0	2	3	1	33	27	0	2	16	9
Finney.....	4	6	9	5	69	47	0	0	35	12
Ford.....	3	6	6	8	95	67	0	3	40	24
Franklin.....	1	12	5	4	89	64	0	1	43	20
Geary.....	0	9	3	7	67	51	0	2	28	21
Gove.....	0	1	0	0	19	16	0	0	9	7
Graham.....	0	2	1	0	17	13	0	0	12	1
Grant.....	1	4	0	2	22	14	0	0	10	4
Gray.....	1	1	0	2	26	21	0	0	12	9
Greeley.....	2	1	0	0	8	7	0	0	5	2
Greenwood.....	1	4	3	3	60	48	1	0	32	15
Hamilton.....	1	2	0	0	9	6	0	0	1	5
Harper.....	1	2	1	1	35	33	0	0	22	11
Harvey.....	5	21	6	7	158	122	0	1	68	53
Haskell.....	0	1	2	0	11	7	0	1	6	0
Hodgeman.....	1	1	1	0	4	3	0	1	0	2
Jackson.....	2	5	1	3	42	30	0	4	17	9
Jefferson.....	1	8	6	7	49	40	0	0	22	18
Jewell.....	1	3	1	2	22	16	0	1	14	1
Johnson.....	24	139	64	133	1,080	643	5	13	365	260
Kearny.....	0	0	2	0	14	11	0	0	10	1
Kingman.....	1	2	10	2	47	35	0	0	24	11
Kiowa.....	0	0	1	1	14	10	0	0	4	6
Labette.....	1	9	4	9	106	82	1	0	54	27
Lane.....	0	0	0	0	20	12	0	0	10	2
Leavenworth.....	1	34	19	18	198	157	2	2	106	47
Lincoln.....	0	1	0	2	28	24	0	0	20	4
Linn.....	0	3	1	2	45	36	0	0	25	11
Logan.....	0	1	0	0	12	10	0	1	2	7

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)									
	Leukemia (C91-C95)	Other Malignant Neoplasms (C00-C14, C40-C49, C69-C90, C96-C97)	Diabetes mellitus (E10-E14)	Alzheimer's Disease (G30)	Major Cardio- vascular Diseases (I00-I78)	Diseases of Heart (I00-I09, I11, I13, I20-I51)	Rheumatic Fever and Rheumatic Heart Diseases (I00-I09)	Hyperten- sive Heart Disease w, w/out Renal Disease (I11, I13)	Ischemic Heart Diseases (I20-I25)	Other Heart Diseases (I26-I51)
Lyon.....	3	5	7	9	102	80	0	0	42	38
Marion.....	1	3	3	7	46	31	0	1	14	16
Marshall.....	3	4	2	3	68	50	0	0	31	19
McPherson.....	1	7	10	21	121	81	2	0	50	29
Meade.....	1	1	1	1	26	19	0	1	13	5
Miami.....	2	6	3	7	115	89	0	1	69	19
Mitchell.....	0	0	1	2	43	28	0	0	20	8
Montgomery.....	4	18	14	15	172	132	0	4	88	40
Morris.....	1	12	5	4	24	17	0	0	14	3
Morton.....	0	2	1	0	10	9	0	1	8	0
Nemaha.....	0	5	4	5	60	38	0	2	22	14
Neosho.....	1	10	6	7	94	73	0	1	52	20
Ness.....	0	4	2	1	29	18	0	2	9	7
Norton.....	0	1	4	5	16	15	0	0	8	7
Osage.....	2	4	1	8	65	48	0	3	29	16
Osborne.....	0	2	5	1	36	32	0	1	26	5
Ottawa.....	0	3	2	1	37	21	0	0	14	7
Pawnee.....	0	2	7	0	32	20	0	1	12	7
Phillips.....	0	4	7	1	30	24	0	1	11	12
Pottawatomie.....	0	13	4	3	76	51	1	2	33	15
Pratt.....	0	2	2	2	37	29	0	3	17	9
Rawlins.....	0	2	1	1	13	12	0	0	9	3
Reno.....	6	21	17	36	223	153	1	1	89	62
Republic.....	0	2	0	0	31	25	0	0	10	15
Rice.....	1	2	3	10	40	31	0	1	19	11
Riley.....	3	15	7	15	79	58	1	2	35	20
Rooks.....	2	3	1	1	29	20	0	2	9	9
Rush.....	0	4	2	6	16	15	0	1	9	5
Russell.....	2	4	5	1	42	36	0	1	27	8
Saline.....	11	26	12	12	183	133	2	4	90	37
Scott.....	0	4	3	4	15	9	0	0	4	5
Sedgwick.....	42	208	106	111	1,286	926	8	23	526	369
Seward.....	0	2	9	3	43	30	1	1	20	8
Shawnee.....	17	66	45	62	582	439	1	13	279	146
Sheridan.....	1	0	0	0	14	13	0	0	6	7
Sherman.....	1	4	0	1	31	28	0	0	23	5
Smith.....	1	3	0	1	30	21	0	1	12	8
Stafford.....	0	1	1	0	21	11	0	1	7	3
Stanton.....	0	1	0	0	6	4	0	0	2	2
Stevens.....	1	4	2	0	19	16	0	0	13	3
Sumner.....	2	13	15	5	105	73	0	3	58	12
Thomas.....	2	2	0	5	31	18	0	0	12	6
Trego.....	1	3	1	0	13	9	0	0	5	4
Wabaunsee.....	1	1	3	1	22	17	0	0	13	4
Wallace.....	0	0	2	0	11	9	0	1	7	1
Washington.....	0	3	1	3	36	28	1	1	13	13
Wichita.....	0	1	0	0	6	5	0	0	5	0
Wilson.....	1	6	7	1	62	39	0	0	24	15
Woodson.....	0	5	1	0	22	21	0	0	15	6
Wyandotte.....	19	70	46	43	503	353	4	7	212	130

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)								
	Hypertension and Hypertensive Renal Disease (I10, I12)	Cerebro-vascular Diseases (I60-I69)	Athero-sclerosis (I70)	Other Diseases of Arteries, Arterioles and Capillaries (I71-I78)	Pneumonia and Influenza (J10-J18)	Chronic Lower Respiratory Diseases (J40-J47)	Peptic Ulcer (K25-K28)	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	Nephritis, Nephrotic Syndr. and Nephrosis (N00-N07, N17-N19, N25-N27)
Kansas.....	175	1,749	357	229	686	1,426	31	200	527
Allen.....	0	12	1	3	5	15	0	0	5
Anderson.....	0	7	1	1	2	5	0	1	1
Atchison.....	2	18	0	2	0	9	1	0	7
Barber.....	0	5	0	0	0	5	0	1	2
Barton.....	3	24	6	8	12	11	2	3	7
Bourbon.....	0	15	1	1	6	13	0	0	3
Brown.....	0	8	1	1	6	3	0	0	0
Butler.....	2	49	5	6	13	31	0	5	10
Chase.....	0	2	0	0	2	1	0	0	1
Chautauqua.....	0	4	0	1	6	3	0	0	2
Cherokee.....	2	19	0	1	5	12	0	4	4
Cheyenne.....	0	2	0	1	0	5	1	0	1
Clark.....	0	1	0	0	0	1	0	0	1
Clay.....	0	10	0	0	1	4	1	4	1
Cloud.....	0	17	0	3	5	13	0	1	6
Coffey.....	0	10	0	0	4	4	0	2	4
Comanche.....	0	0	0	0	0	1	0	0	2
Cowley.....	4	34	0	2	14	22	0	4	14
Crawford.....	1	38	3	2	15	24	0	1	7
Decatur.....	0	2	0	0	3	1	0	0	1
Dickinson.....	1	25	1	0	9	16	0	0	3
Doniphan.....	1	6	1	0	6	4	0	0	1
Douglas.....	7	35	3	4	17	33	1	2	8
Edwards.....	0	1	0	1	4	1	0	0	3
Elk.....	0	6	1	2	3	2	0	0	0
Ellis.....	1	26	1	3	8	8	1	0	3
Ellsworth.....	1	4	0	1	2	3	0	0	1
Finney.....	0	20	0	2	8	14	0	6	3
Ford.....	1	26	0	1	11	14	1	0	4
Franklin.....	3	20	1	1	7	13	0	3	6
Geary.....	3	9	0	4	4	12	2	2	3
Gove.....	0	2	0	1	3	3	0	0	0
Graham.....	0	3	0	1	0	1	0	0	0
Grant.....	0	6	0	2	2	5	0	0	0
Gray.....	1	4	0	0	1	3	0	0	3
Greeley.....	0	1	0	0	1	0	0	1	1
Greenwood.....	0	7	2	3	2	8	0	0	1
Hamilton.....	0	3	0	0	1	1	0	0	0
Harper.....	0	2	0	0	3	7	0	0	3
Harvey.....	5	29	0	2	12	14	0	2	8
Haskell.....	0	3	1	0	0	1	0	0	1
Hodgeman.....	0	0	0	1	0	1	0	0	0
Jackson.....	4	6	0	2	2	5	0	2	7
Jefferson.....	2	5	1	1	8	5	0	0	3
Jewell.....	1	5	0	0	3	5	0	0	1
Johnson.....	23	192	195	27	65	139	3	27	46
Kearny.....	0	2	0	1	1	1	0	0	1
Kingman.....	1	9	1	1	2	6	0	2	2
Kiowa.....	0	3	0	1	1	3	0	0	0
Labette.....	5	18	1	0	10	14	0	2	7
Lane.....	1	4	1	2	0	1	0	0	2
Leavenworth.....	0	30	5	6	19	32	0	7	18
Lincoln.....	0	4	0	0	7	1	0	0	1
Linn.....	0	9	0	0	3	1	1	1	0
Logan.....	0	2	0	0	2	5	1	0	2

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)								
	Hypertension and Hypertensive Renal Disease (I10, I12)	Cerebro-vascular Diseases (I60-I69)	Athero-sclerosis (I70)	Other Diseases of Arteries, Arterioles and Capillaries (I71-I78)	Pneumonia and Influenza (J10-J18)	Chronic Lower Respiratory Diseases (J40-J47)	Peptic Ulcer (K25-K28)	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	Nephritis, Nephrotic Syndr. and Nephrosis (N00-N07, N17-N19, N25-N27)
Lyon.....	1	18	1	2	17	15	0	3	4
Marion.....	1	12	0	2	5	8	2	4	6
Marshall.....	1	15	1	1	11	7	0	1	5
McPherson.....	0	34	1	5	24	14	1	0	11
Meade.....	2	4	0	1	0	1	0	1	2
Miami.....	4	13	5	4	8	20	0	0	10
Mitchell.....	1	11	2	1	4	5	0	0	2
Montgomery.....	9	23	4	4	9	21	1	4	8
Morris.....	1	4	0	2	0	4	0	0	1
Morton.....	0	1	0	0	1	3	0	0	0
Nemaha.....	0	19	3	0	6	8	0	1	2
Neosho.....	1	17	1	2	5	13	1	0	10
Ness.....	4	4	2	1	0	1	0	0	1
Norton.....	0	1	0	0	0	4	0	0	4
Osage.....	0	17	0	0	4	12	0	6	10
Osborne.....	1	3	0	0	2	3	0	0	2
Ottawa.....	1	13	0	2	6	8	0	0	1
Pawnee.....	0	11	1	0	2	4	0	0	5
Phillips.....	0	4	0	2	4	6	0	0	0
Pottawatomie.....	1	23	1	0	4	6	0	2	3
Pratt.....	0	4	2	2	8	11	0	1	3
Rawlins.....	1	0	0	0	1	2	0	0	2
Reno.....	1	59	2	8	20	52	0	7	19
Republic.....	1	4	0	1	8	7	0	0	7
Rice.....	0	6	0	3	8	14	0	1	3
Riley.....	0	15	4	2	10	16	1	3	3
Rooks.....	0	8	0	1	3	4	1	2	0
Rush.....	0	1	0	0	1	1	0	0	3
Russell.....	1	4	1	0	1	11	0	0	2
Saline.....	1	36	6	7	15	45	1	7	12
Scott.....	0	4	0	2	0	5	0	1	2
Sedgwick.....	28	262	34	36	96	242	4	34	75
Seward.....	0	8	1	4	3	13	0	2	2
Shawnee.....	16	102	14	11	28	141	2	23	39
Sheridan.....	0	1	0	0	2	3	0	0	0
Sherman.....	0	1	1	1	4	6	0	0	0
Smith.....	0	8	0	1	3	5	0	0	1
Stafford.....	1	7	2	0	2	4	0	1	2
Stanton.....	0	1	1	0	0	0	0	0	0
Stevens.....	0	2	0	1	0	5	0	0	0
Sumner.....	2	21	7	2	4	17	0	2	5
Thomas.....	0	10	1	2	0	4	0	0	0
Trego.....	0	4	0	0	1	1	0	0	1
Wabaunsee.....	0	2	0	3	1	5	0	0	3
Wallace.....	0	1	1	0	0	2	0	0	0
Washington.....	0	7	0	1	2	8	1	0	0
Wichita.....	0	1	0	0	1	0	0	0	0
Wilson.....	2	20	0	1	5	7	0	0	2
Woodson.....	0	1	0	0	1	5	0	1	1
Wyandotte.....	18	98	25	9	20	62	1	10	32

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)								
	Pregnancy, Childbirth and the Puerperium (O00-O99)	Congenital Anomalies (Q00-Q99)	Cert. Cond. Originating in the Perinatal Period (P00-P96)	Symptoms, Signs and Abnormal Findings (R00-R99)	Motor Vehicle Accidents *	All Other Accidents and Adverse Effects **	Suicide (X60-X84, Y87.0)	Homicide (X85-Y09, Y87.1)	All Other Causes
Kansas.....	0	99	135	434	474	602	344	117	3,177
Allen.....	0	1	0	2	2	3	0	0	19
Anderson.....	0	1	0	0	1	1	0	0	21
Atchison.....	0	1	0	2	3	5	2	0	25
Barber.....	0	0	0	1	1	1	2	0	5
Barton.....	0	1	5	13	8	8	3	3	31
Bourbon.....	0	0	2	8	3	2	2	1	18
Brown.....	0	0	0	3	2	2	0	0	17
Butler.....	0	1	1	6	9	15	6	1	64
Chase.....	0	0	0	1	0	1	1	0	6
Chautauqua.....	0	0	0	1	0	2	0	0	6
Cherokee.....	0	0	3	0	3	9	5	1	19
Cheyenne.....	0	0	0	2	0	1	0	0	5
Clark.....	0	0	0	0	1	0	0	0	3
Clay.....	0	1	0	3	1	3	2	0	11
Cloud.....	0	1	0	3	2	1	0	0	31
Coffey.....	0	1	0	2	1	3	0	0	13
Comanche.....	0	0	0	1	0	0	0	0	12
Cowley.....	0	2	1	6	7	7	9	0	51
Crawford.....	0	3	1	4	7	12	9	3	57
Decatur.....	0	0	0	2	0	1	0	0	17
Dickinson.....	0	0	0	4	3	5	2	1	28
Doniphan.....	0	0	0	0	0	1	1	0	12
Douglas.....	0	5	5	17	12	20	9	4	62
Edwards.....	0	0	1	0	1	1	0	0	7
Elk.....	0	0	0	0	1	0	0	0	8
Ellis.....	0	0	0	6	6	5	5	0	40
Ellsworth.....	0	1	0	2	2	2	0	0	9
Finney.....	0	3	2	2	8	2	4	0	27
Ford.....	0	3	3	7	10	9	1	0	34
Franklin.....	0	0	1	1	4	4	0	0	28
Geary.....	0	2	4	1	6	10	6	0	23
Gove.....	0	1	1	0	2	0	0	0	10
Graham.....	0	0	0	0	2	2	0	1	4
Grant.....	0	0	1	0	0	0	0	0	8
Gray.....	0	0	0	2	0	0	1	0	10
Greeley.....	0	0	0	0	0	0	0	0	3
Greenwood.....	0	0	2	0	5	3	3	0	13
Hamilton.....	0	0	0	2	0	0	0	1	2
Harper.....	0	0	0	0	3	5	1	0	19
Harvey.....	0	2	1	1	11	12	3	0	58
Haskell.....	0	0	0	0	0	0	1	0	2
Hodgeman.....	0	0	0	0	1	2	0	0	5
Jackson.....	0	0	1	3	4	2	0	0	13
Jefferson.....	0	0	0	1	8	2	2	1	24
Jewell.....	0	0	0	8	1	0	1	0	1
Johnson.....	0	17	10	28	31	50	52	8	343
Kearny.....	0	1	0	0	1	1	1	0	10
Kingman.....	0	0	0	2	2	2	0	0	18
Kiowa.....	0	0	0	4	0	0	0	0	3
Labette.....	0	0	2	6	7	5	7	0	41
Lane.....	0	0	1	1	2	0	0	1	4
Leavenworth.....	0	2	5	6	14	15	7	4	56
Lincoln.....	0	0	0	1	3	0	0	0	8
Linn.....	0	0	0	0	6	1	1	0	9
Logan.....	0	0	0	2	2	0	0	0	1

Table 55
Selected Causes of Death by County of Residence
Kansas, 2003

County of Residence	Selected Causes of Death (ICD-10)								
	Pregnancy, Childbirth and the Puerperium (O00-O99)	Congenital Anomalies (Q00-Q99)	Cert. Cond. Originating in the Perinatal Period (P00-P96)	Symptoms, Signs and Abnormal Findings (R00-R99)	Motor Vehicle Accidents *	All Other Accidents and Adverse Effects **	Suicide (X60-X84, Y87.0)	Homicide (X85-Y09, Y87.1)	All Other Causes
Lyon.....	0	1	2	11	5	6	4	2	42
Marion.....	0	1	0	11	3	5	1	0	33
Marshall.....	0	1	0	9	1	4	0	0	19
McPherson.....	0	1	1	2	10	8	5	0	46
Meade.....	0	0	1	0	6	1	1	0	5
Miami.....	0	0	1	2	11	5	4	0	25
Mitchell.....	0	0	0	3	2	0	0	1	18
Montgomery.....	0	2	4	6	11	14	7	3	53
Morris.....	0	0	0	0	3	2	0	0	16
Morton.....	0	0	1	1	1	0	0	0	5
Nemaha.....	0	0	0	0	5	4	1	0	21
Neosho.....	0	0	0	1	5	4	7	1	23
Ness.....	0	0	0	0	2	0	0	0	6
Norton.....	0	0	1	8	0	2	1	1	9
Osage.....	0	0	0	1	7	3	1	0	23
Osborne.....	0	0	0	1	2	0	1	0	9
Ottawa.....	0	0	0	1	3	2	0	0	7
Pawnee.....	0	0	0	2	5	2	0	0	13
Phillips.....	0	0	0	6	1	1	1	0	19
Pottawatomie.....	0	0	0	3	4	3	2	0	17
Pratt.....	0	3	1	1	1	1	1	0	12
Rawlins.....	0	0	0	4	0	0	0	0	3
Reno.....	0	2	2	8	8	16	7	1	90
Republic.....	0	0	0	5	2	3	0	0	16
Rice.....	0	1	0	5	2	3	1	0	17
Riley.....	0	0	6	6	5	4	4	0	46
Rooks.....	0	0	0	1	2	0	1	0	13
Rush.....	0	0	0	1	0	1	0	0	5
Russell.....	0	0	0	2	0	1	2	0	10
Saline.....	0	1	2	6	5	8	6	2	51
Scott.....	0	0	0	1	2	4	2	0	6
Sedgwick.....	0	17	27	33	66	133	57	22	548
Seward.....	0	1	2	1	5	6	2	0	20
Shawnee.....	0	5	8	26	27	41	30	18	258
Sheridan.....	0	0	0	1	1	0	2	0	4
Sherman.....	0	0	0	2	0	0	0	1	6
Smith.....	0	0	0	3	4	3	1	0	8
Stafford.....	0	0	0	0	1	1	0	0	5
Stanton.....	0	0	0	0	1	2	1	0	4
Stevens.....	0	1	0	0	4	0	1	0	5
Sumner.....	0	1	1	2	9	13	6	1	38
Thomas.....	0	0	0	0	1	2	2	0	5
Trego.....	0	1	0	0	1	2	0	0	7
Wabaunsee.....	0	1	0	1	1	6	0	0	10
Wallace.....	0	0	0	0	1	1	0	0	5
Washington.....	0	1	0	7	3	2	0	0	15
Wichita.....	0	1	0	1	0	0	1	0	6
Wilson.....	0	1	1	0	4	6	2	2	17
Woodson.....	0	0	0	1	1	3	2	0	6
Wyandotte.....	0	6	21	81	21	36	28	32	158

* Motor-Vehicle ICD-10 Codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

** All Other Accidents: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y40-Y86, Y88

Table 56
Deaths from 39 Selected Causes
By Age-Group and Sex of Decedent
Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
All Causes.....	24,417	262	61	65	308	294	725	1,533	2,245	3,672	7,040	8,212
Male.....	11,533	159	33	43	219	206	444	932	1,353	2,045	3,431	2,668
Female.....	12,884	103	28	22	89	88	281	601	892	1,627	3,609	5,544
Tuberculosis												
(A16-A19).....	3	0	0	0	0	0	0	1	1	0	0	1
Male.....	2	0	0	0	0	0	0	0	1	0	0	1
Female.....	1	0	0	0	0	0	0	1	0	0	0	0
Syphilis												
(A50-A53).....	0	0	0	0	0	0	0	0	0	0	0	0
Male.....	0	0	0	0	0	0	0	0	0	0	0	0
Female.....	0	0	0	0	0	0	0	0	0	0	0	0
HIV/AIDS												
(B20-B24).....	52	0	0	0	1	10	18	15	7	1	0	0
Male.....	43	0	0	0	0	9	14	13	6	1	0	0
Female.....	9	0	0	0	1	1	4	2	1	0	0	0
Cancer of Stomach												
(C16).....	101	0	0	0	0	0	2	14	20	19	28	18
Male.....	69	0	0	0	0	0	1	11	16	16	16	9
Female.....	32	0	0	0	0	0	1	3	4	3	12	9
Cancer of Colon, Rectum & Anus												
(C18-C21).....	522	0	0	0	0	1	13	39	62	128	147	132
Male.....	245	0	0	0	0	0	9	20	39	69	68	40
Female.....	277	0	0	0	0	1	4	19	23	59	79	92
Cancer of Pancreas												
(C25).....	310	0	0	0	0	1	3	25	46	81	103	51
Male.....	149	0	0	0	0	0	1	16	25	49	45	13
Female.....	161	0	0	0	0	1	2	9	21	32	58	38
Cancer of Trachea, Bronchus & Lung												
(C33-C34).....	1,508	0	0	0	0	2	22	124	268	455	490	147
Male.....	883	0	0	0	0	2	10	69	160	279	286	77
Female.....	625	0	0	0	0	0	12	55	108	176	204	70
Cancer of Breast												
(C50).....	430	0	0	0	0	2	22	62	78	83	101	82
Male.....	3	0	0	0	0	0	0	0	1	0	1	0
Female.....	427	0	0	0	0	2	22	62	77	83	100	81
Cancer of Cervix, Corpus & Ovary												
(C53-C56).....	235	0	0	0	1	1	11	26	37	45	78	36
Male.....	0	0	0	0	0	0	0	0	0	0	0	0
Female.....	235	0	0	0	1	1	11	26	37	45	78	36
Cancer of Prostate												
(C61).....	264	0	0	0	0	0	0	2	12	48	108	94
Male.....	264	0	0	0	0	0	0	2	12	48	108	94
Female.....	0	0	0	0	0	0	0	0	0	0	0	0

Table 56
 Deaths from 39 Selected Causes
 By Age-Group and Sex of Decedent
 Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Cancer of Urinary Tract (C64-C68).....	243	0	0	0	0	0	5	13	30	57	90	48	0
Male.....	152	0	0	0	0	0	5	10	16	35	57	29	0
Female.....	91	0	0	0	0	0	0	3	14	22	33	19	0
Non-Hodgkin's Lymphoma (C82-C85).....	247	0	0	0	1	2	6	20	36	43	88	51	0
Male.....	120	0	0	0	0	2	3	10	17	24	44	20	0
Female.....	127	0	0	0	1	0	3	10	19	19	44	31	0
Leukemia (C91-C95).....	231	2	2	3	1	4	6	19	20	58	77	39	0
Male.....	127	1	0	2	0	3	3	12	10	37	41	18	0
Female.....	104	1	2	1	1	1	3	7	10	21	36	21	0
Other Malignant Neoplasms*	1,194	1	2	4	4	14	44	120	208	239	364	194	0
Male.....	701	1	1	2	3	8	33	81	136	147	200	89	0
Female.....	493	0	1	2	1	6	11	39	72	92	164	105	0
Diabetes mellitus (E10-E14).....	669	0	0	1	2	3	19	44	101	123	210	166	0
Male.....	302	0	0	0	2	2	13	21	62	65	85	52	0
Female.....	367	0	0	1	0	1	6	23	39	58	125	114	0
Alzheimer's Disease (G30).....	783	0	0	0	0	0	0	0	13	53	236	481	0
Male.....	232	0	0	0	0	0	0	0	9	21	81	121	0
Female.....	551	0	0	0	0	0	0	0	4	32	155	360	0
Hypertensive Heart Disease (I11, I13).....	149	0	0	0	0	2	4	7	4	5	36	91	0
Male.....	39	0	0	0	0	2	3	5	3	3	11	12	0
Female.....	110	0	0	0	0	0	1	2	1	2	25	79	0
Ischemic Heart Disease (I20-I25).....	4,007	0	0	0	1	5	64	221	370	602	1,179	1,565	0
Male.....	2,098	0	0	0	1	3	44	172	287	392	643	556	0
Female.....	1,909	0	0	0	0	2	20	49	83	210	536	1,009	0
Other Heart Disease (I00-I09, I26-I51).....	2,272	4	2	2	7	15	49	106	137	248	620	1,082	0
Male.....	969	2	1	1	2	10	33	60	88	143	304	325	0
Female.....	1,303	2	1	1	5	5	16	46	49	105	316	757	0
Hypertensive Renal Disease (I10, I12).....	175	0	0	0	0	0	2	3	11	16	52	91	0
Male.....	58	0	0	0	0	0	2	2	6	8	18	22	0
Female.....	117	0	0	0	0	0	0	1	5	8	34	69	0

Table 56
 Deaths from 39 Selected Causes
 By Age-Group and Sex of Decedent
 Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Cerebrovascular Disease (I60-I69).....	1,749	1	0	0	2	8	25	37	80	195	579	822	0
Male.....	624	0	0	0	0	4	9	15	46	92	238	220	0
Female.....	1,125	1	0	0	2	4	16	22	34	103	341	602	0
Atherosclerosis (I70).....	357	0	0	0	0	0	1	3	4	28	90	231	0
Male.....	116	0	0	0	0	0	1	3	3	14	42	53	0
Female.....	241	0	0	0	0	0	0	0	1	14	48	178	0
Other Disease of Circulatory System (I71-I78).....	229	0	0	0	1	1	5	10	21	51	66	74	0
Male.....	117	0	0	0	1	0	4	4	17	29	40	22	0
Female.....	112	0	0	0	0	1	1	6	4	22	26	52	0
Pneumonia & Influenza (J10-J18).....	686	3	1	0	1	2	7	19	20	55	187	391	0
Male.....	278	2	0	0	1	2	2	12	13	34	92	120	0
Female.....	408	1	1	0	0	0	5	7	7	21	95	271	0
Chronic Lower Respiratory Disease (J40-J47).....	1,426	0	0	0	2	1	5	41	135	322	597	323	0
Male.....	694	0	0	0	2	0	2	20	61	163	294	152	0
Female.....	732	0	0	0	0	1	3	21	74	159	303	171	0
Peptic Ulcer (K25-K28).....	31	0	0	0	0	0	0	1	6	3	3	18	0
Male.....	11	0	0	0	0	0	0	1	3	3	0	4	0
Female.....	20	0	0	0	0	0	0	0	3	0	3	14	0
Chonic Liver Disease & Cirrhosis (K70, K73-K74).....	200	0	0	0	0	3	22	51	47	39	25	13	0
Male.....	128	0	0	0	0	1	15	40	32	26	10	4	0
Female.....	72	0	0	0	0	2	7	11	15	13	15	9	0
Nephritis, Nephrotic Syndrome & Nephrosis (N00-N07, N17-N19, N25-N27).....	527	3	0	0	1	3	8	12	33	77	173	217	0
Male.....	245	3	0	0	1	2	5	10	13	38	90	83	0
Female.....	282	0	0	0	0	1	3	2	20	39	83	134	0
Pregnancy, Childbirth, & the Puerperium (O00-O99).....	0	0	0	0	0	0	0	0	0	0	0	0	0
Male.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Female.....	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain Conditons Originating In the Perinatal Period (P00-P96).....	135	134	1	0	0	0	0	0	0	0	0	0	0
Male.....	82	81	1	0	0	0	0	0	0	0	0	0	0
Female.....	53	53	0	0	0	0	0	0	0	0	0	0	0

Table 56
Deaths from 39 Selected Causes
By Age-Group and Sex of Decedent
Kansas, 2003

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Congenital Anomalies (Q00-Q99).....	99	52	8	5	5	4	5	3	7	4	5	1	0
Male.....	59	32	5	3	3	3	3	2	5	2	1	0	0
Female.....	40	20	3	2	2	1	2	1	2	2	4	1	0
Sudden Infant Death Syndrome (R95).....	33	33	0	0	0	0	0	0	0	0	0	0	0
Male.....	21	21	0	0	0	0	0	0	0	0	0	0	0
Female.....	12	12	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings (R00-R94, R96-R99).....	401	3	2	1	6	5	20	30	39	45	89	161	0
Male.....	173	3	1	0	5	4	9	20	29	28	42	32	0
Female.....	228	0	1	1	1	1	11	10	10	17	47	129	0
All Other Diseases**.....	3,584	9	16	15	22	33	109	219	245	446	1,046	1,424	0
Male.....	1,485	5	8	10	9	16	53	137	135	214	474	424	0
Female.....	2,099	4	8	5	13	17	56	82	110	232	572	1,000	0
Motor Vehicle Accidents***.....	474	3	4	24	137	67	61	55	50	23	38	12	0
Male.....	320	2	3	17	95	51	46	31	33	14	19	9	0
Female.....	154	1	1	7	42	16	15	24	17	9	19	3	0
All Other Accidents and Adverse Effects****.....	602	9	19	6	35	29	70	83	51	49	107	144	0
Male.....	352	4	12	4	27	22	47	59	37	28	56	56	0
Female.....	250	5	7	2	8	7	23	24	14	21	51	88	0
Suicide													
X60-X84, Y87.0.....	344	0	0	3	43	49	67	87	35	24	26	10	0
Male.....	269	0	0	3	38	41	50	58	23	21	25	10	0
Female.....	75	0	0	0	5	8	17	29	12	3	1	0	0
Homicide													
X85-Y09, Y87.1.....	117	5	3	1	33	22	23	15	7	5	1	2	0
Male.....	83	2	1	1	27	14	18	12	6	2	0	0	0
Female.....	34	3	2	0	6	8	5	3	1	3	1	2	0
All Other External Causes													
Y10-Y36, Y87.2, Y89.....	28	0	1	0	2	5	7	6	4	2	1	0	0
Male.....	20	0	0	0	2	5	6	4	3	0	0	0	0
Female.....	8	0	1	0	0	0	1	2	1	2	1	0	0

* C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-C97

**A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98

***V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

****V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1,

V89.3, V89.9, V90-X59, Y40-Y86, Y88

Residence data

Marriages & Marriage Dissolutions

Marriages

In 2003, 18,722 marriages occurred in Kansas, a decrease of 5.4 percent from the 2002 total of 19,783 marriages. ([Table 57](#))

The greatest number of marriages (3,526) occurred in Sedgwick county, but Geary county had the highest marriage rate of 18.5 marriages per 1,000 population. Greeley county had the fewest marriages (7) while Kearny had the lowest marriage rate (3.3). ([Table 57](#), [Figure 36](#))

The Kansas marriage rate in 2003 was 6.9 marriages per 1,000 population, which was 17.9 percent lower than the 1994 rate of 8.4. The 2003 rate was 8.0 percent lower than the estimated U.S. rate of 7.5 marriages per 1,000 population. ([Table 1](#), [Figure 38](#))

More wedding ceremonies were performed in June (12.6 percent) than any other month in 2003, with May and August being the second and third most popular months. ([Figure 40](#))

First-time marriages for both partners made up more than half of the marriages in Kansas for the fourth consecutive year. In 2003, 53.9 percent of all marriages involved first-time partners. ([Table 59](#), [Figure 2](#))

Kansas couples are delaying marriage. In 1994, 11.9 percent of the brides and 4.7 percent of the grooms were under 20 years of age. However, in 2003, 9.1 percent of the brides and 3.2 percent of the grooms were under 20. ([Table 60](#))

The average age of all brides in 2003 was 29.8 years and that of grooms was 32.0 years. Women marrying for the first time averaged 24.7 years while first time grooms averaged 26.8 years. Of those persons who remarried during 2003, women were, on the average, 39.5 years old and men were 42.6 years of age. ([Figure 41](#))

Marriage and Marriage Dissolutions (Cont.)

Marriage Dissolutions

Notice: The tabulation of divorce statistics is impacted by the completeness of reporting by District Courts in Kansas. Despite efforts to assure 100 percent reporting compliance for divorce certificates, it has been determined by the Center for Health and Environmental Statistics that not all divorce certificates have been filed with the Center. The Center is unable to estimate how incomplete the reporting is. Users of divorce data should exercise caution before making any conclusions based on these data. The Center is obligated to report the data it collects, but recommends that any divorce data findings be accompanied by a statement that totals may not represent 100 percent of this vital event due to under-reporting.

In 2003, 8,644 marriage dissolutions (8,385 divorces and 259 annulments) occurred in Kansas, a decrease of 10.4 percent from the 2002 total of 9,645. ([Table 58](#) and [Table 62](#))

The greatest number of marriage dissolutions (2,534) occurred in Sedgwick county, but Coffey county had the highest marriage dissolution rate (11.9) per 1,000 population. Comanche, Meade and Wallace counties had 2 marriage dissolutions in 2003. The lowest rate was in Meade County with a marriage dissolution rate of 0.4 per 1,000 population. ([Table 58](#), [Figure 37](#))

The Kansas marriage dissolution rate in 2003 was 3.2 marriage dissolutions per 1,000 population, which was 30.4 percent lower than the 1994 rate of 4.6. The 2003 rate is the lowest since 1969. ([Table 1](#), [Figure 39](#))

Kansas has generally reported a higher marriage dissolution rate than the U.S. for most years since 1951. However, Kansas' rate in 1995 (4.3) was lower than the U.S. rate (4.4) for the first time since 1951. The Kansas rate in 2003 (3.2) was 15.8 percent lower than the U.S. rate (3.8). ([Figure 39](#))

The ratios of marriages to divorces for Kansas and the U.S. were both roughly 2 to 1, with Kansas at 2.2:1 and the U.S. at 2.0:1. ([Table 57](#) and [Table 58](#))

The most common age-group of wives involved in marriage dissolutions in 2003 was 25-29, while for husbands it was the 30-34 age-group. For couples of the same age-group, the most common age-group was 25-29. ([Table 61](#))

The average age at marriage dissolution in 2003 was 36.4 years for wives and 38.7 years for husbands, as compared to 34.1 years for wives and 36.4 years for husbands in 1994. ([Figure 42](#))

In 2003, 41.3 percent of marriages ending in divorce or annulment lasted four years or less. ([Table 62](#))

There were 8,044 minor children affected as a result of marriage dissolutions in 2003. At least one minor child was reported in over half (51.3 percent) of the marriage dissolutions. ([Table 63](#), [Figure 43](#))

Table 57
 Marriages by Number and Rate*
 By County of Marriage and by Peer Group**
 Kansas, 1999-2003

County of Marriage	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Kansas.....	20,905	7.9	20,426	7.6	20,457	7.6	19,783	7.3	18,722	6.9	7.5	
Allen.....	96	6.7	86	6.0	90	6.3	82	5.8	68	4.9	5.9	
Anderson.....	75	9.2	54	6.7	63	7.7	68	8.3	48	5.8	7.5	
Atchison.....	116	6.9	118	7.0	130	7.8	116	7.0	137	8.2	7.4	
Barber.....	40	7.6	33	6.2	47	9.1	42	8.3	34	6.8	7.6	
Barton.....	243	8.5	251	8.9	246	8.8	220	7.9	212	7.7	8.4	
Bourbon.....	128	8.5	129	8.4	131	8.5	112	7.4	93	6.2	7.8	
Brown.....	84	7.7	77	7.2	84	7.9	87	8.3	88	8.4	7.9	
Butler.....	476	7.6	421	7.1	412	6.8	379	6.3	395	6.5	6.9	
Chase.....	44	15.4	34	11.2	46	15.2	31	10.6	34	10.9	12.7	
Chautauqua.....	48	11.2	42	9.6	38	8.9	31	7.4	29	6.9	8.8	
Cherokee.....	121	5.4	123	5.4	138	6.2	138	6.3	135	6.2	5.9	
Cheyenne.....	22	6.8	20	6.3	15	4.8	13	4.2	14	4.7	5.4	
Clark.....	22	9.4	16	6.7	24	10.1	13	5.5	9	3.9	7.1	
Clay.....	60	6.7	71	8.0	52	5.9	74	8.5	67	7.8	7.4	
Cloud.....	91	9.1	76	7.4	62	6.2	70	7.0	68	6.9	7.3	
Coffey.....	58	6.6	74	8.3	67	7.6	65	7.3	50	5.7	7.1	
Comanche.....	18	9.2	22	11.2	19	9.7	13	6.5	15	7.8	8.9	
Cowley.....	313	8.5	297	8.2	289	8.0	268	7.4	286	8.0	8.0	
Crawford.....	272	7.5	246	6.4	252	6.6	227	6.0	212	5.5	6.4	
Decatur.....	28	8.3	33	9.5	26	7.6	24	7.0	23	7.0	7.9	
Dickinson.....	194	9.9	157	8.1	156	8.1	140	7.3	149	7.7	8.2	
Doniphan.....	51	6.4	63	7.6	56	6.7	54	6.6	45	5.5	6.6	
Douglas.....	706	7.2	733	7.3	729	7.3	760	7.4	782	7.6	7.4	
Edwards.....	28	8.5	20	5.8	25	7.5	25	7.5	19	5.8	7.0	
Elk.....	26	7.7	26	8.0	24	7.5	18	5.7	21	6.6	7.1	
Ellis.....	220	8.4	207	7.5	205	7.5	201	7.4	203	7.5	7.7	
Ellsworth.....	49	7.9	53	8.1	43	6.6	45	7.0	41	6.5	7.2	
Finney.....	353	9.4	318	7.8	381	9.5	261	6.6	292	7.5	8.2	
Ford.....	314	10.6	259	8.0	370	11.5	261	8.0	238	7.2	9.1	
Franklin.....	222	8.8	167	6.7	200	8.0	196	7.7	188	7.4	7.7	
Geary.....	509	20.4	450	16.1	511	19.1	527	20.0	488	18.5	18.8	
Gove.....	17	5.6	15	4.9	11	3.7	24	8.0	23	7.9	6.0	
Graham.....	20	6.4	22	7.5	12	4.2	22	7.7	23	8.2	6.8	
Grant.....	62	7.9	69	8.7	64	8.2	42	5.3	43	5.6	7.1	
Gray.....	33	5.9	40	6.8	40	6.7	34	5.6	27	4.5	5.9	
Greeley.....	9	5.5	6	3.9	8	5.3	9	6.1	7	4.9	5.1	
Greenwood.....	55	6.9	61	7.9	59	7.6	52	6.8	47	6.3	7.1	
Hamilton.....	17	7.2	21	7.9	22	8.2	21	7.9	17	6.4	7.5	
Harper.....	45	7.1	56	8.6	49	7.7	48	7.6	52	8.4	7.9	
Harvey.....	249	7.3	254	7.7	234	7.1	252	7.6	236	7.0	7.3	
Haskell.....	29	7.2	23	5.3	33	7.7	44	10.3	35	8.2	7.7	
Hodgeman.....	7	3.1	9	4.3	12	5.6	13	6.0	9	4.2	4.6	
Jackson.....	80	6.6	76	6.0	76	6.0	75	5.9	89	6.8	6.3	
Jefferson.....	118	6.5	102	5.5	99	5.3	118	6.3	135	7.2	6.2	
Jewell.....	23	6.1	17	4.5	21	5.8	26	7.4	23	6.7	6.1	
Johnson.....	2,612	5.9	2,686	6.0	2,639	5.7	2,647	5.6	2,675	5.5	5.7	
Kearny.....	29	7.0	28	6.2	20	4.4	26	5.7	15	3.3	5.3	
Kingman.....	50	5.8	57	6.6	55	6.5	65	7.7	39	4.7	6.3	
Kiowa.....	26	7.8	23	7.0	22	7.0	23	7.4	22	7.0	7.2	
Labette.....	132	5.8	139	6.1	137	6.1	117	5.3	117	5.3	5.7	
Lane.....	16	7.4	17	7.9	19	9.1	15	7.5	11	5.7	7.5	
Leavenworth.....	542	7.6	515	7.5	551	7.8	558	7.9	432	6.0	7.4	
Lincoln.....	32	9.6	27	7.5	16	4.5	18	5.1	15	4.3	6.2	
Linn.....	74	8.0	75	7.8	69	7.1	65	6.7	62	6.4	7.2	
Logan.....	15	5.1	36	11.8	16	5.4	19	6.3	26	9.1	7.5	

Table 57
Marriages by Number and Rate*
By County of Marriage and by Peer Group**
Kansas, 1999-2003

County of Marriage	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Lyon.....	289	8.6	295	8.2	268	7.5	279	7.8	230	6.4	7.7	
Marion.....	92	6.8	75	5.6	76	5.7	69	5.2	73	5.5	5.8	
Marshall.....	78	7.2	87	7.9	81	7.5	85	8.0	69	6.5	7.4	
McPherson.....	229	7.9	229	7.7	212	7.2	227	7.7	223	7.6	7.6	
Meade.....	37	8.4	32	6.9	30	6.5	23	5.0	27	5.8	6.5	
Miami.....	174	6.4	208	7.3	227	7.9	200	6.9	171	5.9	6.9	
Mitchell.....	53	7.6	60	8.7	51	7.5	34	5.1	37	5.5	6.9	
Montgomery.....	318	8.6	325	9.0	312	8.8	281	8.0	269	7.7	8.4	
Morris.....	55	8.9	57	9.3	50	8.2	46	7.6	44	7.3	8.3	
Morton.....	30	8.6	46	13.2	31	9.2	26	7.7	17	5.1	8.8	
Nemaha.....	67	6.6	88	8.2	90	8.6	71	6.8	68	6.5	7.3	
Neosho.....	120	7.2	127	7.5	123	7.3	114	6.9	123	7.4	7.3	
Ness.....	21	5.9	24	6.9	26	7.8	20	6.0	25	7.9	6.9	
Norton.....	38	6.7	33	5.5	45	7.7	39	6.6	33	5.7	6.4	
Osage.....	125	7.3	115	6.9	93	5.5	91	5.4	108	6.4	6.3	
Osborne.....	20	4.4	24	5.4	32	7.4	26	6.1	14	3.4	5.3	
Ottawa.....	44	7.5	31	5.0	28	4.5	44	7.0	34	5.5	5.9	
Pawnee.....	47	6.5	58	8.0	57	8.2	59	8.5	47	6.9	7.6	
Phillips.....	58	9.7	38	6.3	30	5.1	41	7.0	44	7.8	7.2	
Pottawatomie.....	134	7.1	85	4.7	83	4.5	126	6.8	101	5.4	5.7	
Pratt.....	94	9.9	79	8.2	78	8.2	80	8.4	66	7.0	8.3	
Rawlins.....	25	8.3	17	5.7	21	7.2	22	7.6	19	6.7	7.1	
Reno.....	594	9.3	560	8.6	512	8.0	485	7.6	516	8.1	8.3	
Republic.....	43	7.2	41	7.0	25	4.4	32	5.9	35	6.6	6.2	
Rice.....	65	6.4	64	5.9	67	6.3	67	6.4	53	5.1	6.0	
Riley.....	487	7.6	480	7.6	421	7.0	467	7.6	487	7.8	7.5	
Rooks.....	40	7.1	49	8.6	23	4.1	41	7.5	29	5.4	6.5	
Rush.....	26	7.7	24	6.8	30	8.6	27	7.7	20	5.9	7.3	
Russell.....	45	6.0	62	8.4	60	8.4	56	7.9	38	5.5	7.2	
Saline.....	523	10.2	423	7.9	477	8.9	418	7.8	418	7.8	8.5	
Scott.....	37	7.5	47	9.2	43	8.6	29	5.9	27	5.6	7.4	
Sedgwick.....	3,965	8.8	3,890	8.6	3,912	8.6	3,904	8.5	3,526	7.6	8.4	
Seward.....	214	10.6	209	9.3	274	12.2	201	8.7	161	7.0	9.6	
Shawnee.....	1,379	8.1	1,382	8.1	1,326	7.8	1,348	7.9	1,209	7.1	7.8	
Sheridan.....	12	4.5	15	5.3	10	3.7	14	5.3	14	5.3	4.8	
Sherman.....	48	7.4	51	7.5	43	6.6	37	5.8	33	5.3	6.5	
Smith.....	46	10.1	36	7.9	40	9.0	18	4.1	26	6.2	7.5	
Stafford.....	31	6.2	22	4.6	26	5.5	24	5.1	27	5.9	5.5	
Stanton.....	12	5.4	18	7.5	20	8.3	17	7.1	21	8.7	7.4	
Stevens.....	37	6.9	47	8.6	52	9.7	46	8.6	44	8.2	8.4	
Sumner.....	235	8.6	212	8.2	194	7.5	200	7.8	168	6.7	7.8	
Thomas.....	66	8.3	50	6.1	53	6.6	51	6.3	38	4.8	6.4	
Trego.....	22	6.7	33	9.9	23	7.2	23	7.3	25	8.1	7.8	
Wabaunsee.....	41	6.2	36	5.2	33	4.8	37	5.5	51	7.5	5.8	
Wallace.....	12	6.7	13	7.4	12	7.0	7	4.1	12	7.4	6.5	
Washington.....	29	4.5	41	6.3	52	8.2	45	7.2	46	7.5	6.7	
Wichita.....	15	5.8	16	6.3	28	11.0	15	6.0	10	4.1	6.6	
Wilson.....	85	8.2	92	8.9	59	5.8	67	6.6	64	6.3	7.2	
Woodson.....	32	8.2	20	5.3	32	8.5	29	7.9	26	7.2	7.4	
Wyandotte.....	1,297	8.6	1,310	8.3	1,351	8.6	1,181	7.5	1,093	7.0	8.0	
Peer Group												
Frontier	717	7.4	723	7.3	708	7.3	633	6.6	590	6.2	7.0	
Rural	2,118	7.4	2,132	7.3	2,008	7.0	1,994	7.0	1,811	6.4	7.0	
Densely -Settled Rural ..	3,456	8.1	3,226	7.5	3,407	7.9	3,047	7.1	2,994	7.0	7.5	
Semi-Urban	4,655	8.8	4,344	8.1	4,377	8.2	4,269	8.0	4,042	7.5	8.1	
Urban	9,959	7.6	10,001	7.5	9,957	7.4	9,840	7.2	9,285	6.7	7.3	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Occurrence data

Table 58
 Marriage Dissolutions by Number and Rate*
 By County of Action and by Peer Group**
 Kansas, 1999-2003

County of Action	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Kansas.....	9,926	3.7	10,105	3.8	9,885	3.7	9,645	3.6	8,644	3.2	3.6	
Allen.....	39	2.7	44	3.1	36	2.5	30	2.1	26	1.9	2.5	
Anderson.....	33	4.1	41	5.1	35	4.3	27	3.3	19	2.3	3.8	
Atchison.....	58	3.4	65	3.9	78	4.7	85	5.1	62	3.7	4.2	
Barber.....	24	4.6	27	5.1	26	5.0	19	3.7	18	3.6	4.4	
Barton.....	70	2.4	56	2.0	62	2.2	83	3.0	44	1.6	2.2	
Bourbon.....	65	4.3	61	4.0	57	3.7	61	4.0	72	4.8	4.2	
Brown.....	30	2.7	47	4.4	33	3.1	35	3.3	32	3.1	3.3	
Butler.....	196	3.1	238	4.0	173	2.9	182	3.0	191	3.1	3.2	
Chase.....	8	2.8	6	2.0	1	0.3	7	2.4	3	1.0	1.7	
Chautauqua.....	16	3.7	22	5.0	25	5.9	16	3.8	15	3.6	4.4	
Cherokee.....	66	2.9	56	2.5	61	2.7	69	3.1	68	3.1	2.9	
Cheyenne.....	9	2.8	12	3.8	13	4.2	15	4.8	6	2.0	3.5	
Clark.....	3	1.3	5	2.1	10	4.2	7	2.9	3	1.3	2.4	
Clay.....	32	3.6	40	4.5	30	3.4	31	3.6	28	3.3	3.7	
Cloud.....	38	3.8	49	4.8	41	4.1	40	4.0	31	3.1	4.0	
Coffey.....	124	14.2	151	17.0	112	12.7	98	11.0	105	11.9	13.4	
Comanche.....	6	3.1	4	2.0	2	1.0	3	1.5	2	1.0	1.7	
Cowley.....	162	4.4	195	5.4	191	5.3	200	5.5	199	5.5	5.2	
Crawford.....	180	5.0	185	4.8	136	3.6	145	3.8	151	3.9	4.2	
Decatur.....	9	2.7	6	1.7	9	2.6	8	2.3	7	2.1	2.3	
Dickinson.....	103	5.2	89	4.6	90	4.7	73	3.8	44	2.3	4.1	
Doniphan.....	39	4.9	22	2.7	36	4.3	29	3.5	24	2.9	3.7	
Douglas.....	393	4.0	344	3.4	286	2.9	298	2.9	282	2.7	3.2	
Edwards.....	7	2.1	15	4.3	8	2.4	9	2.7	13	4.0	3.1	
Elk.....	24	7.1	19	5.8	21	6.6	18	5.7	11	3.5	5.7	
Ellis.....	96	3.6	116	4.2	110	4.0	101	3.7	112	4.1	3.9	
Ellsworth.....	57	9.2	54	8.3	58	8.9	39	6.1	46	7.2	7.9	
Finney.....	161	4.3	137	3.4	148	3.7	129	3.2	118	3.0	3.5	
Ford.....	130	4.4	112	3.5	104	3.2	113	3.5	136	4.1	3.7	
Franklin.....	136	5.4	110	4.4	131	5.3	126	5.0	106	4.2	4.9	
Geary.....	260	10.4	225	8.1	228	8.5	234	8.9	194	7.4	8.7	
Gove.....	3	1.0	8	2.6	6	2.0	1	0.3	8	2.7	1.7	
Graham.....	3	1.0	9	3.1	17	6.0	6	2.1	16	5.7	3.6	
Grant.....	42	5.3	25	3.2	27	3.5	30	3.8	21	2.7	3.7	
Gray.....	12	2.2	11	1.9	11	1.8	19	3.1	9	1.5	2.1	
Greeley.....	6	3.6	7	4.6	0	0.0	0	0.0	6	4.2	2.5	
Greenwood.....	48	6.0	39	5.1	33	4.2	28	3.7	38	5.1	4.8	
Hamilton.....	11	4.6	16	6.0	18	6.7	10	3.8	9	3.4	4.9	
Harper.....	19	3.0	20	3.1	12	1.9	25	4.0	16	2.6	2.9	
Harvey.....	137	4.0	38	1.2	120	3.6	123	3.7	66	2.0	2.9	
Haskell.....	10	2.5	9	2.1	6	1.4	8	1.9	4	0.9	1.8	
Hodgeman.....	3	1.3	3	1.4	3	1.4	5	2.3	5	2.3	1.7	
Jackson.....	36	3.0	36	2.8	53	4.2	40	3.1	38	2.9	3.2	
Jefferson.....	52	2.9	68	3.7	60	3.2	51	2.7	44	2.3	3.0	
Jewell.....	13	3.4	17	4.5	8	2.2	11	3.1	10	2.9	3.2	
Johnson.....	458	1.0	469	1.0	427	0.9	546	1.1	336	0.7	0.9	
Kearny.....	13	3.1	8	1.8	5	1.1	14	3.1	10	2.2	2.3	
Kingman.....	23	2.7	27	3.1	24	2.8	26	3.1	21	2.5	2.8	
Kiowa.....	5	1.5	6	1.8	7	2.2	11	3.5	12	3.8	2.6	
Labette.....	117	5.1	129	5.6	96	4.3	105	4.7	99	4.4	4.8	
Lane.....	8	3.7	4	1.9	10	4.8	6	3.0	7	3.6	3.4	
Leavenworth.....	86	1.2	156	2.3	205	2.9	231	3.3	234	3.3	2.6	
Lincoln.....	9	2.7	9	2.5	5	1.4	10	2.8	7	2.0	2.3	
Linn.....	21	2.3	33	3.4	34	3.5	34	3.5	28	2.9	3.1	
Logan.....	6	2.0	4	1.3	15	5.1	7	2.3	10	3.5	2.8	

Table 58
 Marriage Dissolutions by Number and Rate*
 By County of Action and by Peer Group**
 Kansas, 1999-2003

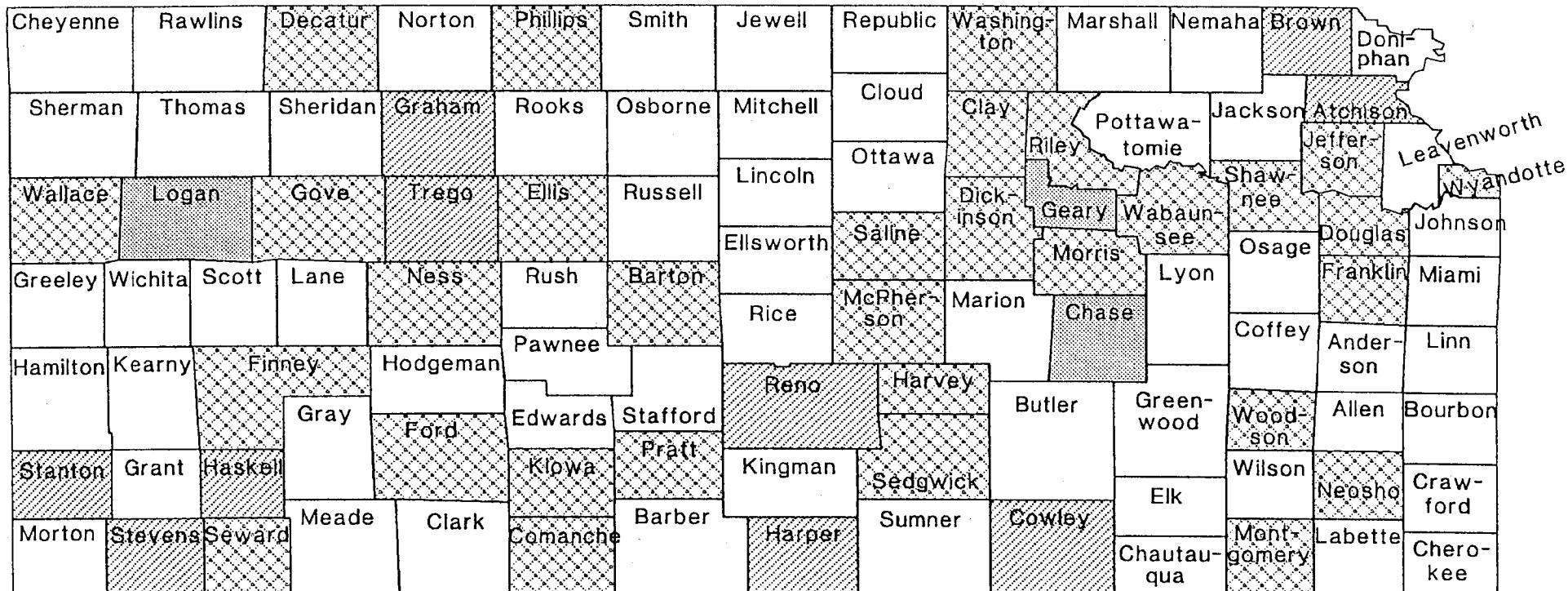
County of Action	Year										5-Year Rate	
	1999		2000		2001		2002		2003			
	Number	Rate										
Lyon.....	51	1.5	38	1.1	53	1.5	64	1.8	74	2.1	1.6	
Marion.....	39	2.9	39	2.9	28	2.1	38	2.9	24	1.8	2.5	
Marshall.....	26	2.4	36	3.3	48	4.5	31	2.9	29	2.7	3.2	
McPherson.....	76	2.6	95	3.2	113	3.8	112	3.8	105	3.6	3.4	
Meade.....	8	1.8	10	2.2	9	1.9	12	2.6	2	0.4	1.8	
Miami.....	55	2.0	55	1.9	44	1.5	42	1.5	32	1.1	1.6	
Mitchell.....	25	3.6	28	4.0	24	3.5	24	3.6	24	3.6	3.7	
Montgomery.....	177	4.8	156	4.3	153	4.3	140	4.0	139	4.0	4.3	
Morris.....	27	4.4	20	3.3	26	4.3	18	3.0	23	3.8	3.8	
Morton.....	16	4.6	13	3.7	8	2.4	14	4.2	13	3.9	3.8	
Nemaha.....	23	2.3	26	2.4	37	3.5	28	2.7	35	3.3	2.8	
Neosho.....	69	4.1	63	3.7	108	6.4	71	4.3	48	2.9	4.3	
Ness.....	9	2.5	11	3.2	11	3.3	8	2.4	8	2.5	2.8	
Norton.....	22	3.9	32	5.4	36	6.2	30	5.1	33	5.7	5.3	
Osage.....	76	4.4	87	5.2	55	3.3	65	3.8	57	3.4	4.0	
Osborne.....	19	4.1	11	2.5	15	3.5	9	2.1	9	2.2	2.9	
Ottawa.....	22	3.7	16	2.6	22	3.6	18	2.9	16	2.6	3.1	
Pawnee.....	26	3.6	44	6.1	28	4.0	42	6.0	44	6.5	5.2	
Phillips.....	26	4.4	32	5.3	31	5.3	22	3.7	17	3.0	4.3	
Pottawatomie.....	53	2.8	51	2.8	50	2.7	45	2.4	27	1.4	2.4	
Pratt.....	43	4.5	37	3.8	41	4.3	39	4.1	32	3.4	4.0	
Rawlins.....	8	2.7	3	1.0	14	4.8	13	4.5	10	3.5	3.3	
Reno.....	411	6.5	387	6.0	367	5.7	376	5.9	340	5.3	5.9	
Republic.....	12	2.0	26	4.5	19	3.4	22	4.0	17	3.2	3.4	
Rice.....	32	3.1	29	2.7	27	2.6	32	3.0	35	3.4	3.0	
Riley.....	184	2.9	175	2.8	168	2.8	182	3.0	201	3.2	2.9	
Rooks.....	17	3.0	11	1.9	16	2.9	13	2.4	14	2.6	2.6	
Rush.....	9	2.7	15	4.2	4	1.1	5	1.4	15	4.4	2.8	
Russell.....	24	3.2	29	3.9	19	2.7	24	3.4	22	3.2	3.3	
Saline.....	288	5.6	333	6.2	340	6.3	272	5.0	237	4.4	5.5	
Scott.....	11	2.2	17	3.3	12	2.4	19	3.9	24	5.0	3.4	
Sedgwick.....	2,770	6.1	2,877	6.4	3,004	6.6	2,762	6.0	2,534	5.5	6.1	
Seward.....	98	4.9	112	5.0	79	3.5	91	3.9	82	3.6	4.2	
Shawnee.....	689	4.0	713	4.2	684	4.0	717	4.2	597	3.5	4.0	
Sheridan.....	11	4.1	8	2.8	9	3.3	7	2.7	7	2.6	3.1	
Sherman.....	39	6.0	34	5.0	33	5.1	33	5.2	28	4.5	5.2	
Smith.....	10	2.2	12	2.6	4	0.9	11	2.5	12	2.9	2.2	
Stafford.....	16	3.2	11	2.3	5	1.1	8	1.7	11	2.4	2.1	
Stanton.....	8	3.6	11	4.6	8	3.3	10	4.1	8	3.3	3.8	
Stevens.....	34	6.3	32	5.9	35	6.5	23	4.3	22	4.1	5.4	
Sumner.....	84	3.1	96	3.7	65	2.5	85	3.3	68	2.7	3.1	
Thomas.....	33	4.1	32	3.9	29	3.6	27	3.3	34	4.3	3.8	
Trego.....	13	4.0	20	6.0	2	0.6	11	3.5	13	4.2	3.7	
Wabaunsee.....	16	2.4	17	2.5	13	1.9	12	1.8	10	1.5	2.0	
Wallace.....	4	2.2	1	0.6	2	1.2	5	3.0	2	1.2	1.6	
Washington.....	16	2.5	10	1.5	10	1.6	10	1.6	10	1.6	1.8	
Wichita.....	7	2.7	7	2.8	2	0.8	4	1.6	4	1.6	1.9	
Wilson.....	61	5.9	67	6.5	48	4.7	57	5.6	48	4.8	5.5	
Woodson.....	13	3.3	11	2.9	12	3.2	14	3.8	9	2.5	3.1	
Wyandotte.....	405	2.7	405	2.6	362	2.3	251	1.6	217	1.4	2.1	
Peer Group												
Frontier	292	3.0	307	3.1	272	2.8	276	2.9	266	2.8	2.9	
Rural	1,144	4.0	1,240	4.3	1,133	3.9	1,080	3.8	1,012	3.6	3.9	
Densely -Settled Rural .	1,614	3.8	1,654	3.8	1,599	3.7	1,598	3.7	1,435	3.3	3.7	
Semi-Urban	2,161	4.1	2,096	3.9	2,118	4.0	2,117	4.0	1,965	3.7	3.9	
Urban	4,715	3.6	4,808	3.6	4,763	3.5	4,574	3.3	3,966	2.9	3.4	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Occurrence data

Marriage Rates By County of Occurrence Kansas, 2003

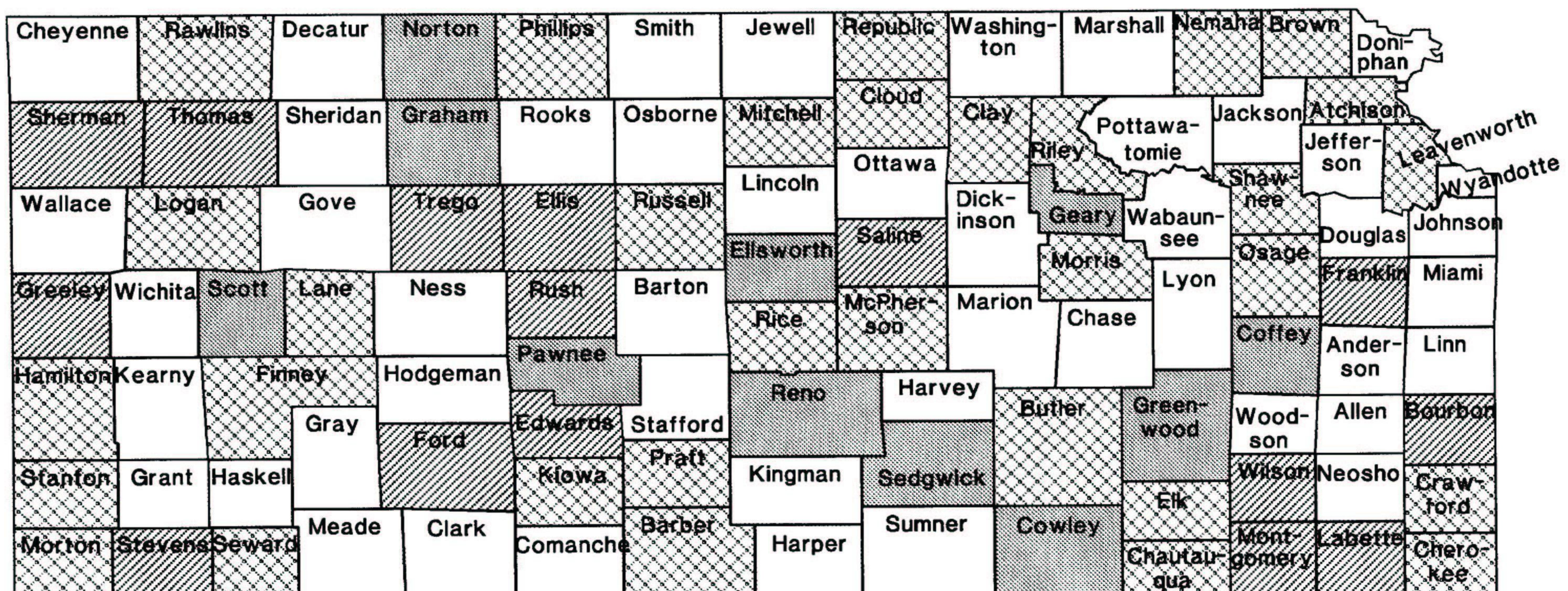


Marriages Per 1,000 Population

State Rate: 6.9

Legend	
Under 7.0	
7.0 to 7.9	
8.0 to 8.9	
9.0 and over	

Marriage Dissolution Rates By County of Occurrence Kansas, 2003



Marriage Dissolutions Per 1,000 Population

State Rate: 3.2

Legend	
	Under 3.0
	3.0 to 3.9
	4.0 to 4.9
	5.0 to 15.8

Figure 37

Marriage Rates

Kansas and the U.S., 1964-2003

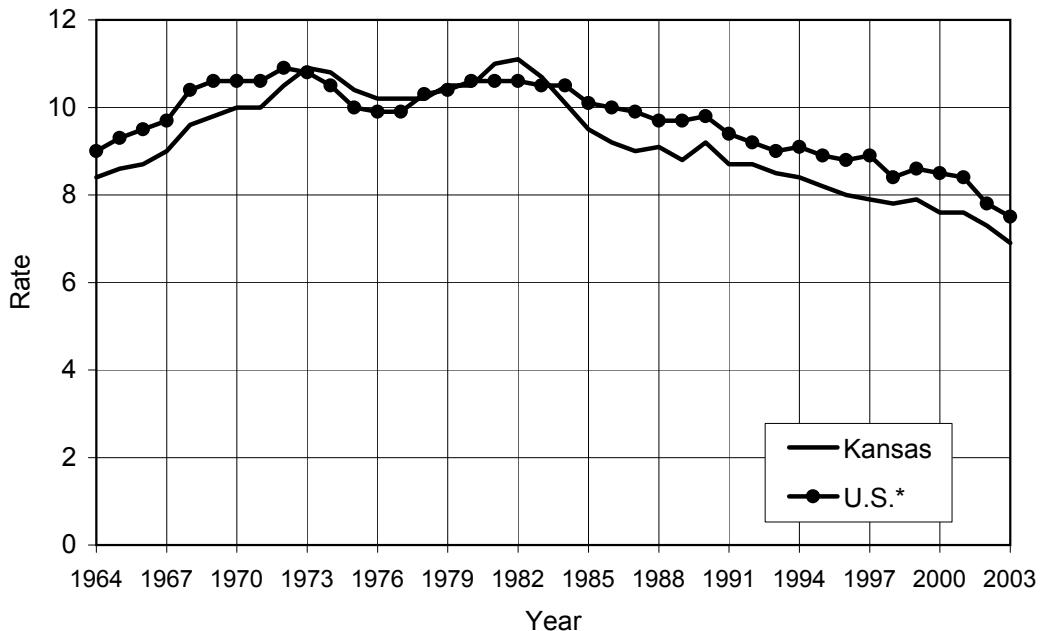


Figure 38

*1991-2003 Rates Provisional.

Rate per 1,000 Population

Occurrence Data

Marriage Dissolution Rates

Kansas and the U.S., 1964-2003

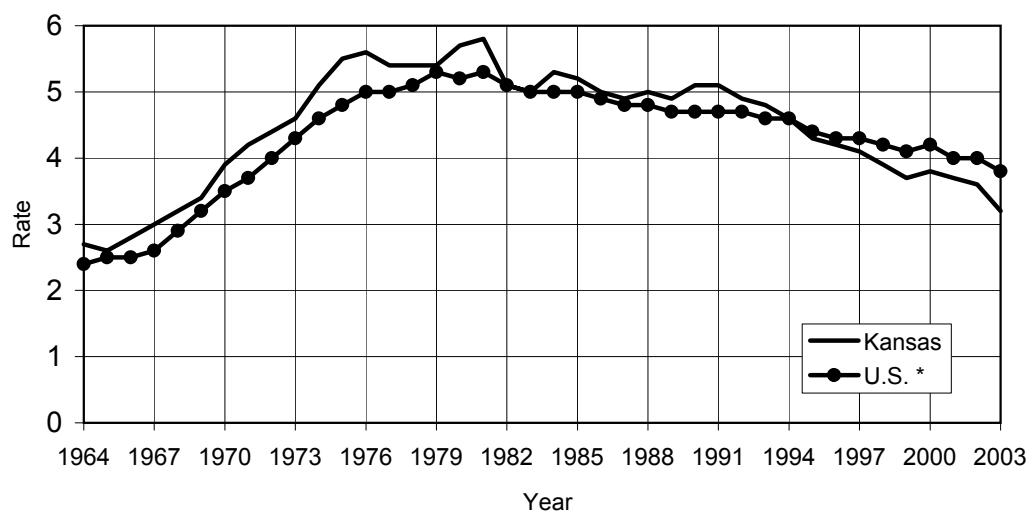


Figure 39

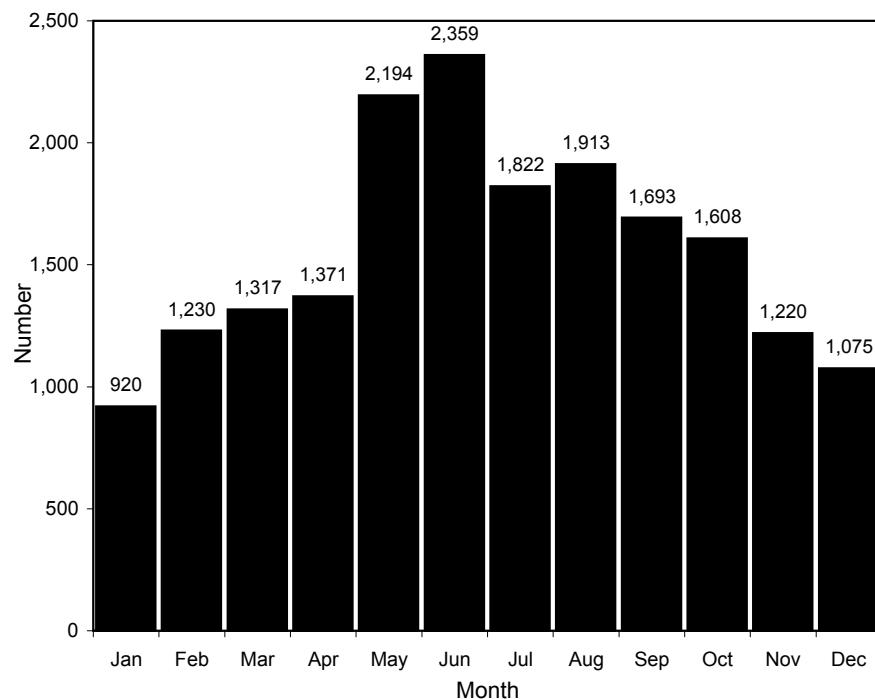
*1991-2003 Rates Provisional.

Rate per 1,000 Population

Occurrence Data

Number of Marriages by Month

Kansas, 2003



Occurrence data

Figure 40

Table 59
Marriages by Premarital Status of Bride
By Premarital Status of Groom
Kansas, 2003

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	Not Stated
Total.....	18,722	11,788	5,994	144	608	188
Never Married.....	11,967	9,971	1,868	45	66	17
Divorced.....	5,871	1,703	3,794	78	277	19
Annulled.....	137	58	57	16	5	1
Widowed.....	560	45	254	5	256	0
Not Stated.....	187	11	21	0	4	151

Occurrence data

Table 60
Marriages by Age-Group of Bride by Age-Group of Groom
Kansas, 2003

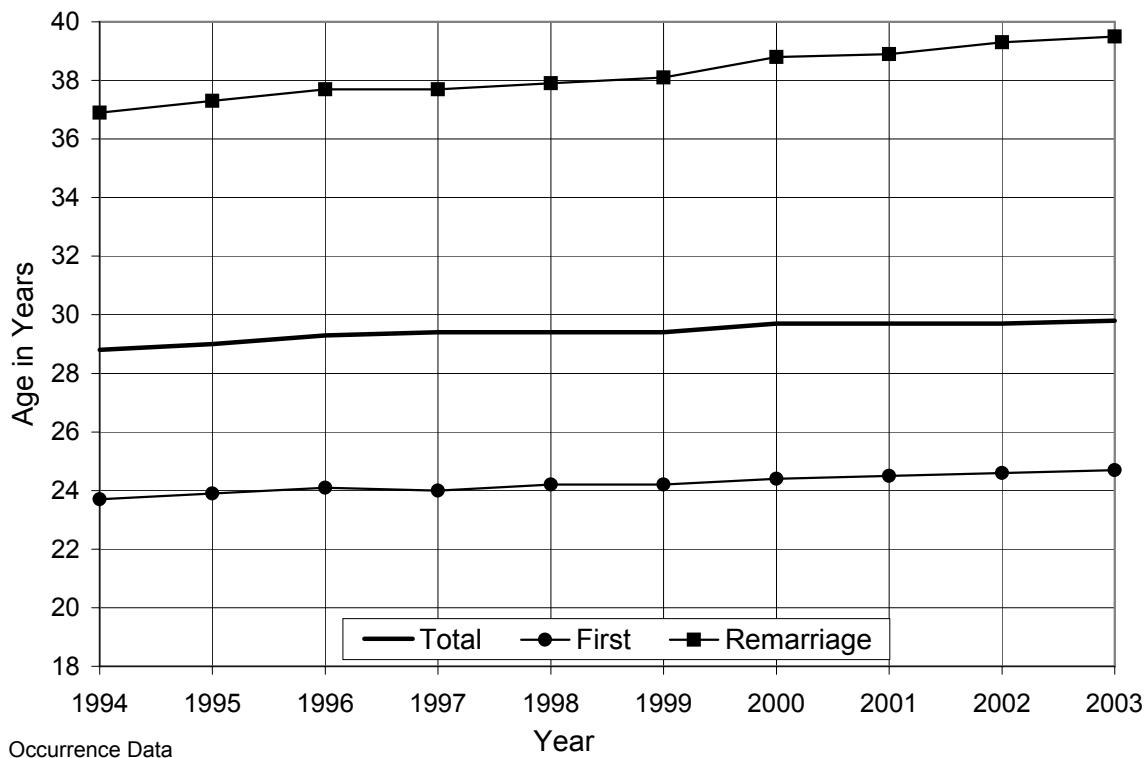
Age-Group of Groom	Total	Age-Group of Bride														
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total.....	18,722	5	1,701	6,333	3,737	2,151	1,438	1,227	871	552	290	154	127	74	62	0
Under 15.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19.....	607	5	406	171	17	3	4	0	1	0	0	0	0	0	0	0
20-24.....	5,433	0	1,053	3,630	589	126	25	8	1	0	1	0	0	0	0	0
25-29.....	4,361	0	177	1,885	1,732	418	99	36	11	2	1	0	0	0	0	0
30-34.....	2,541	0	46	459	911	732	272	92	24	5	0	0	0	0	0	0
35-39.....	1,655	0	12	132	299	522	397	201	73	12	4	2	1	0	0	0
40-44.....	1,348	0	3	38	119	220	374	354	169	56	14	1	0	0	0	0
45-49.....	1,012	0	3	15	41	94	154	313	256	103	28	3	1	1	0	0
50-54.....	684	0	1	1	19	24	81	143	187	155	59	13	0	1	0	0
55-59.....	448	0	0	0	8	7	21	56	107	136	79	25	9	0	0	0
60-64.....	241	0	0	0	1	5	8	18	31	52	59	42	18	5	2	0
65-69.....	146	0	0	2	1	0	2	4	6	22	23	38	36	10	2	0
70-74.....	106	0	0	0	0	0	1	0	3	5	13	15	40	23	6	0
75 & Over.....	139	0	0	0	0	0	0	2	1	4	9	15	22	34	52	0
Not Stated.....	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Occurrence data

Average Age at Marriage

Kansas, 1994-2003

Bride



Groom

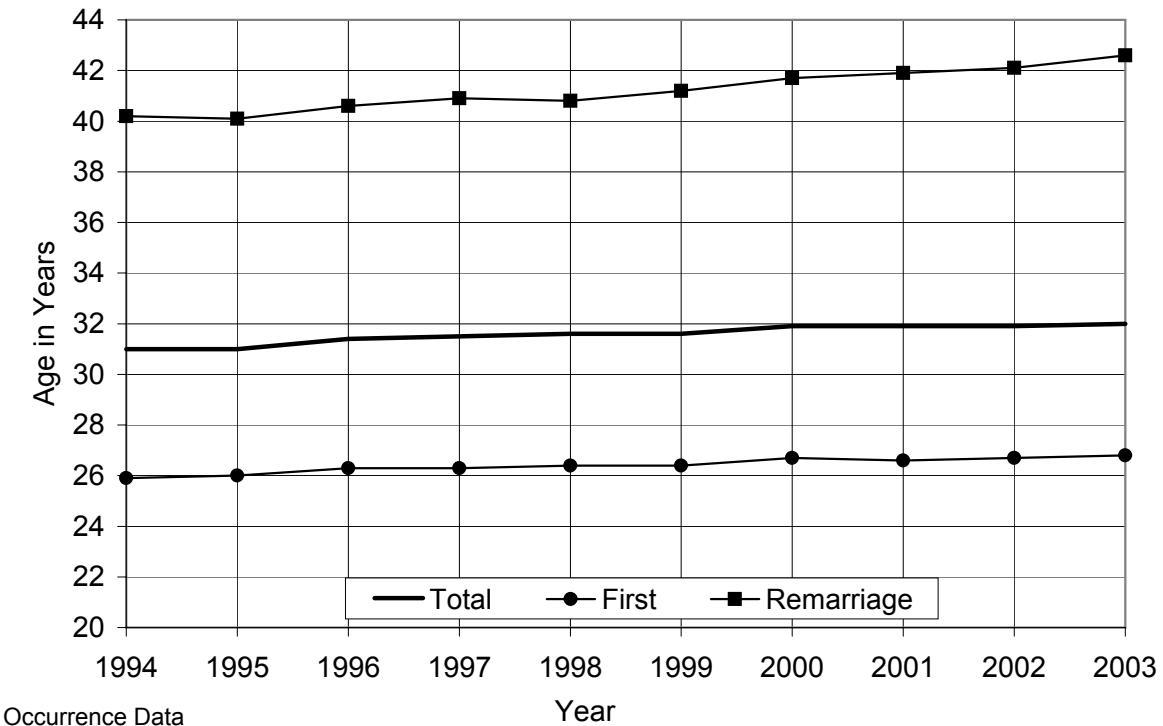


Figure 41

Table 61
Marriage Dissolutions by Age-Group of Wife by Age-Group of Husband
Kansas, 2003

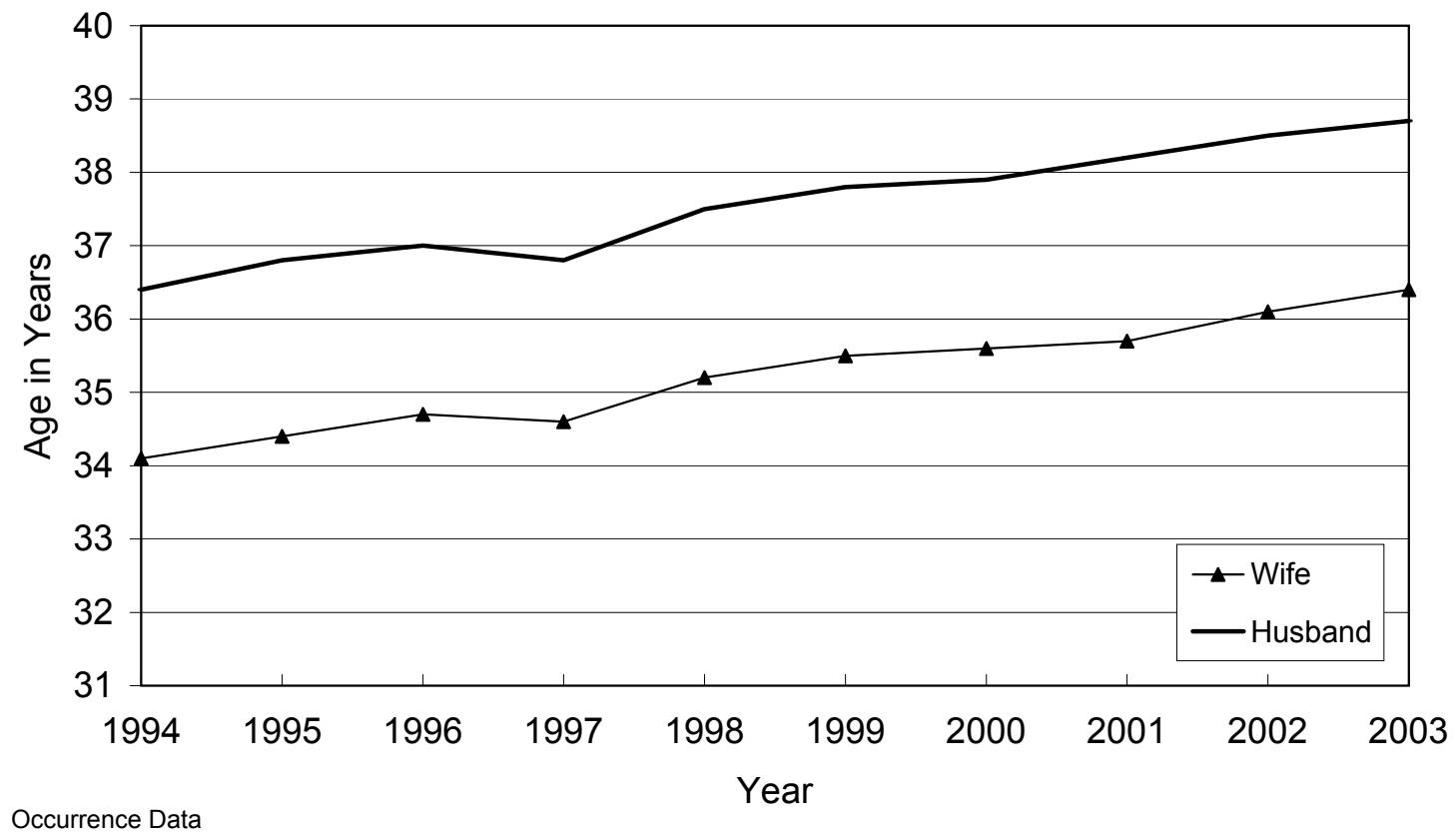
Age-Group of Husband	Age-Group of Wife															
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total.....	8,644	0	97	1,071	1,474	1,398	1,314	1,247	900	472	219	124	61	38	25	204
Under 15.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19.....	24	0	10	11	2	0	0	0	0	0	0	0	0	0	0	1
20-24.....	655	0	62	454	100	18	2	2	0	0	0	0	0	0	0	17
25-29.....	1,362	0	19	439	678	154	30	18	4	0	0	0	0	0	0	20
30-34.....	1,420	0	3	103	452	597	151	57	27	5	0	1	0	0	0	24
35-39.....	1,290	0	0	26	146	375	489	160	47	17	5	1	1	0	0	23
40-44.....	1,295	0	0	13	52	156	390	484	125	47	5	4	0	1	0	18
45-49.....	1,050	0	0	4	15	57	152	329	373	80	15	8	1	0	0	16
50-54.....	680	0	1	1	7	13	55	121	235	185	36	10	4	0	0	12
55-59.....	341	0	0	2	2	6	18	42	50	95	91	21	5	0	0	9
60-64.....	161	0	0	0	1	2	6	12	19	27	39	37	6	2	1	9
65-69.....	100	0	0	0	0	1	3	7	8	7	17	28	21	5	0	3
70-74.....	59	0	0	0	0	1	0	1	2	3	6	7	18	13	5	3
75 & Over.....	54	0	0	0	0	1	1	1	1	2	4	2	5	17	17	3
Not Stated.....	153	0	2	18	19	17	17	13	9	4	1	5	0	0	2	46

Occurrence data

Average Age at Marriage Dissolution

Kansas, 1994-2003

137



Occurrence Data

Figure 42

Table 62
Marriage Dissolutions
By Duration of Marriage in Years
Kansas, 2003

Duration of Marriage	Total	Divorces	Annulments
Total.....	8,644	8,385	259
Under 1.....	622	475	147
1.....	780	706	74
2.....	771	754	17
3.....	738	728	10
4.....	662	656	6
5.....	566	565	1
6.....	488	488	0
7.....	411	410	1
8.....	338	338	0
9.....	304	303	1
10.....	273	272	1
11.....	259	259	0
12.....	243	242	1
13.....	230	230	0
14.....	167	167	0
15.....	156	156	0
16.....	151	151	0
17.....	136	136	0
18.....	148	148	0
19.....	117	117	0
20-24.....	543	543	0
25-29.....	281	281	0
30-34.....	136	136	0
35-39.....	73	73	0
40 & Over.....	51	51	0
Not Stated.....	0	0	0

Occurrence data

Marriage Dissolutions:

Percent Distribution by Number of Minor Children
Kansas, 2003

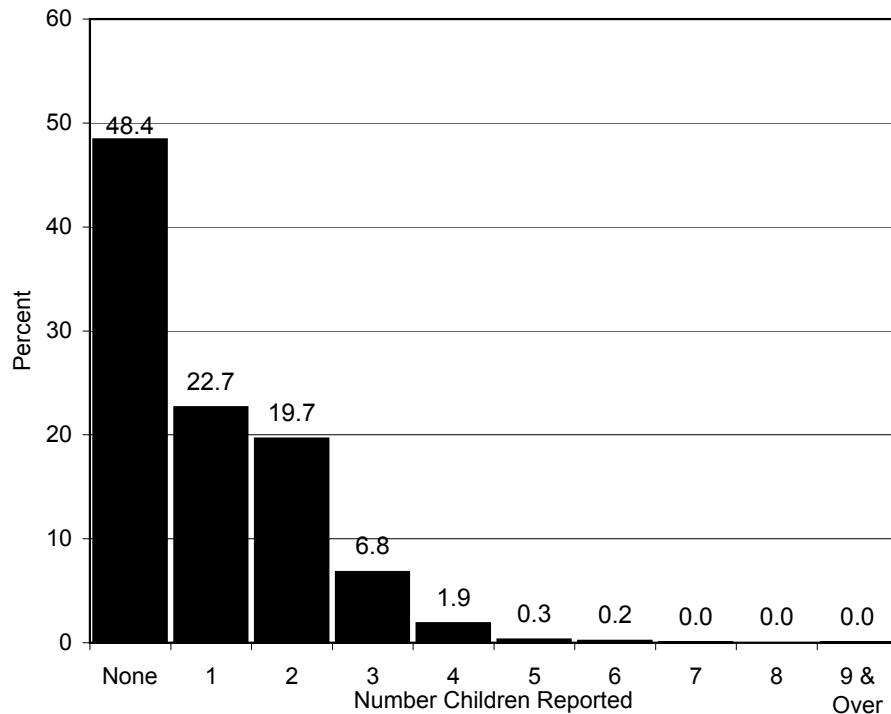


Figure 43
Occurrence Data

Table 63
Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
Kansas, 2003

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	
Total.....	8,385	100.0	259	100.0	8,044
None.....	3,953	47.1	234	90.3	0
1	1,941	23.2	18	7.0	1,959
2	1,694	20.2	5	1.9	3,398
3	587	7.0	2	0.8	1,767
4 or More.....	210	2.5	0	0.0	920
Not Stated.....	0	0	0	0	0

*Represents the number of children involved in marriages ending in divorce or annulment.

Occurrence

Technical Notes

Registration. The reporting of Kansas vital events to the Kansas Department of Health and Environment (KDHE) is mandated by law (K.S.A. 65-102). The filing of birth and death records was begun in 1911 and the registration of marriages and divorces was initiated in 1913 and 1951 respectively. Certificates of births, deaths, stillbirths, marriages, marriage dissolutions, and reports of abortions are completed by the combined efforts of physicians, hospital personnel, funeral directors, and local courts. All certificates and reports are filed with the Office of Vital Statistics by direct reporting. Since registration of vital events began, over ten million records have been processed, filed and indexed.

Quality of Data. The quality of the analyses in the Annual Summary of Vital Statistics depends on the accuracy of the Kansas vital statistics data. The Office of Vital Statistics makes every effort to ensure the completeness and accuracy of the certificates filed. An exchange agreement with all 57 registration states/jurisdictions and Canada ensures that vital events occurring to Kansas residents in other states or Canada are recorded. Tabulation of vital events for 2003 in-state occurrences is maintained through March 15, 2004, while out-of-state occurrences are maintained through May 1, 2004. Reports filed later consist of less than one percent of the total reports filed, are considered negligible, and are omitted from this report.

The tabulation of divorce statistics is impacted by the completeness of reporting by District Courts in Kansas. Despite efforts to assure 100 percent reporting compliance for divorce certificates, it has been determined by the Center for Health and Environmental Statistics that not all divorce certificates have been filed with the Center. The Center is unable to estimate how incomplete the reporting is. Users of divorce data should exercise caution before making any conclusions based on these data. The Center is obligated to report the data it collects, but recommends that any divorce data findings be accompanied by a statement that totals may not represent 100 percent of this vital event due to under-reporting

Residence vs Occurrence Data. Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out-of-state). Occurrence data is information compiled according to the geographical location where the event took place, regardless of the actual residence. Information compiled for births, stillbirths, deaths and abortions in this report are residence data, while marriages and marriage dissolutions are occurrence data.

Peer Groups. For various demographic studies, it is useful to consider groups of counties with similar characteristics. "Peer Groups" of counties, as used in this summary, are defined as those with similar population density based on their 2000 actual census counts. In order to facilitate a time series comparison the assignment of counties to their peer group remains unchanged until the next decennial census. They will not necessarily have similar values for any other indicators. Frontier counties are defined as those with less than 6.0 persons per square mile, Rural counties as those with 6.0 - 19.9 persons per square mile, Densely-Settled Rural counties as those with 20.0 - 39.9 persons per square mile, Semi-Urban counties as those with 40.0 - 149.9 persons per square mile, and Urban counties as those with 150.0 or more persons per square mile. These definitions originated with the Kansas Department of Health and Environment, Office of Local and Rural Health, and should *not* be confused with the U.S. Census Bureau's definitions of urban and rural areas. Sources for calculation of

Technical Notes (Cont.)

population densities are population figures from the 2000 U.S. Census and land areas from the 2000 U.S. Census.

Counties are grouped in population density peer groups as follows:

Frontier	Wallace	Rice	Osage
Barber	Wichita	Rooks	Pottawatomie
Chase		Russell	Seward
Cheyenne	Rural	Scott	Sumner
Clark	Anderson	Sherman	
Comanche	Brown	Stafford	Semi-Urban
Decatur	Chautauqua	Stevens	Butler
Edwards	Clay	Thomas	Crawford
Elk	Cloud	Wabaunsee	Franklin
Gove	Coffey	Washington	Geary
Graham	Ellsworth	Wilson	Harvey
Greeley	Grant	Woodson	Leavenworth
Hamilton	Gray		Lyon
Hodgeman	Greenwood	Densely-Settled	Miami
Jewell	Harper	Rural	Montgomery
Kearny	Haskell	Allen	Reno
Kiowa	Jackson	Atchison	Riley
Lane	Kingman	Barton	Saline
Lincoln	Linn	Bourbon	
Logan	Marion	Cherokee	Urban
Meade	Marshall	Cowley	Douglas
Morton	Mitchell	Dickinson	Johnson
Ness	Morris	Doniphan	Sedgwick
Osborne	Nemaha	Ellis	Shawnee
Rawlins	Norton	Finney	Wyandotte
Rush	Ottawa	Ford	
Sheridan	Pawnee	Jefferson	
Smith	Phillips	Labette	
Stanton	Pratt	McPherson	
Trego	Republic	Neosho	

Population. State and county population estimates for 1999 were obtained from the U.S. Bureau of the Census (U.S.C.B.) on the Internet at: <http://eire.census.gov/popest>.

City population estimates for 1999 were derived by the KDHE as in the following example for 1999:

$$\frac{1999 \text{ City Population}}{\text{County Population, 1998}} = \frac{\text{City Population, 1998}}{\text{County Population, 1998}} \times \frac{1999 \text{ County Population}}{\text{County Population}}$$

Actual population counts from the U.S.C.B. were obtained for 2000 on the internet at <http://www.census.gov/main/www/cen2000.html>. Population estimates for 2001-2003 by the U.S.C.B. and certified by the Kansas Division of the Budget were obtained on the internet at: <http://da.state.ks.us/budget/ecodemo.htm>.

Technical Notes (Cont.)

Population estimates by age-group and sex for 1994-1996 were obtained from the Census and You, Vol. 29, No. 4, April 1994, Vol. 30, No. 4, April 1995, Vol. 31, No. 3, March, 1996 and Vol. 32, No. 7, July, 1997 U.S.C.B., respectively. Population estimates for 1997-1999 were obtained on the internet at: <http://eire.census.gov/popest/archives/1990.php>. Population counts for 2000 were obtained on the internet at <http://www.census.gov/main/www/cen2000.html>. These numbers were used in age-specific and age-adjusted calculations. Population by age-group and sex was not available from the U.S.C.B. for 2001 and was estimated by the Kansas Department of Health and Environment based on 2000 U.S. Census Bureau numbers. Population estimates for 2002-2003 were obtained from the Vintage 2002, and 2003 postcensal series by year, age, sex, race, and Hispanic origin, prepared under a collaborative arrangement between the National Center for Health Statistics and the U.S. Census Bureau. The population data are at the Centers for Disease Control and Prevention website at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

Due to rounding and variation in estimation methods within the U.S. Census Bureau, some discrepancies may be found in population data. ([Table 2](#) and [Table 4](#)) Usually differences are negligible and rarely result in discrepancies in the totals. We advise you to utilize state totals from the county population totals when a total population estimate is needed.

Female Population 10-19. Estimates of the Kansas female population for 1994-1999 were obtained from the U.S. Bureau of the Census, and actual population counts were used for 2000.

The 2001 state and county estimates for teenage females (10-14, 10-17, 15-19, 10-19) were compiled by the Kansas Department of Health and Environment based on 2000 U.S. Census Bureau numbers. In order to estimate the 2001 teenage female population for the various age groupings, the 2000 proportion for the age grouping within the total population had to be derived. These estimates were calculated as in the following example for 2001.

Female Population 10-14 Year		10-14 Year
Age Group (2000)	x 2001 Population	= Age-Group
-----	All Ages	(2001)
2000 Population All Ages		

The 2002-2003 estimates were prepared by the U.S.C.B. in collaboration with the National Center for Health Statistics. (See above reference)

Deaths. Underlying causes of death in the 2003 Annual Summary of Vital Statistics are established through a system known as the International Classification of Diseases, 10th Revision (ICD-10). This system promotes uniformity and comparability in the collection and presentation of mortality or death data. Prior to 1999, Kansas used ICD-9 to report mortality statistics. Periodically the classification system needs to be updated to address new diseases and reflect a better understanding of causes of death. The World Health Organization maintains ICD-10 and the National Center for Health Statistics (NCHS), which compiles national statistics, modifies ICD-10 for use by Kansas and other states.

One of the challenges in the conversion to a new classification system is comparability with statistics compiled under the old system. Because so much has changed, exact comparison is not possible. Not only have the number of causes of death doubled to

Technical Notes (Cont.)

over 8,000, but the rules of how a death is coded have changed. Greater knowledge of diseases like Alzheimer's and diabetes has resulted in coding rule changes that will increase the number of cases reported. The rule changes may also lower the number of deaths classified as pneumonia and influenza. Death data from 1999 forward are classified by ICD-10, and trends in mortality will be comparable.

Age-Adjusted Death Rates. Mortality rates, the number of deaths per 100,000 population, are a common way to report death statistics so that comparisons can be made from year to year or among geographic areas. Crude death rates compensate for the differences in population within the areas or time periods studied. Crude death rates, however, do not compensate for the different make up of compared populations. For example, some Kansas counties may have more older residents than other counties. To address this, statisticians prepare age-adjusted death rates. The direct method for calculating age-adjusted death rates was used in this report. Age-adjusting is a process by which the age composition of a population is defined as constant so that differences in age composition can be eliminated from the analysis. This is needed because older populations have higher death rates, merely because death rates increase with age. Age-adjusted rates allow for more meaningful comparison of the risk of mortality over time and among groups.

For this report, age-adjusted death rates were calculated using the 2000 population standard. Kansas began using the 2000 population standard, as recommended by NCHS, in the 1999 Annual Summary of Vital Statistics. As part of its implementation of the new age-adjusting population standard, the Center for Health and Environmental Statistics (CHES) produced the report *Age Standardization of Kansas Death*

Rates: Implications of the Year 2000 Standard. Copies can be obtained at the CHES Web site <http://www.kdhe.state.ks.us/ches/>.

Years of Potential Life Lost (YPLL). The YPLL, for this report, is a measurement of the number of years of potential life lost by each death occurring before the average life expectancy. This calculation provides more information on the societal impact of mortality. Years of life lost counts deaths at a younger age more heavily than those at older ages (e.g., the younger person has a greater potential for years left than an elderly person). YPLL were calculated by subtracting mid-point years of the 5-year age-groups from life expectancies for all Kansans and male and female Kansans. The subtraction leaves a remainder - the years of potential life lost, which is then multiplied by the number of deaths in that particular age-group and subsequently all calculations for the five-year age-groups beginning with 0-4 and through over 85 are summed to provide the total years of life lost. In making the calculations, the age-groups with mid-points larger than the life expectancy were set to zero because they would not contribute years of life lost (e.g., they are over the life expectancy). For this report, the life expectancy for all Kansans is 77.4 years, males 74.9 and females 79.8 years. These 2000 life expectancies were prepared by the KDHE Center for Health and Environmental Statistics. Since the 1992 Annual Summary of Vital Statistics, CHES has used 1990 life tables prepared by the Kansas Division of the Budget. In an effort to update this data

CHES has prepared the report *Abridged Life Tables, Kansas, 2000*. Copies can be obtained on the Center for Health and Environmental Statistics website at: <http://www.kdhe.state.ks.us/ches/research.html>.

Rate Reliability. Vital statistics are easily influenced by random variation and single-year rates can fluctuate from year to year. A multiple-year rate such as a five- or ten- year average of single-year rates would be more accurate in formulating conclusions on vital events. For example, between 1999 and 2003 the infant death rate for Kansas ranged from 6.7 to 7.3, while the 1999-2003 five-year infant death rate for Kansas was 7.0 infant deaths per 1,000 live births. A five or ten-year rate smooths

Technical Notes (Cont.)

some of the variation in single-year rates and would be a more reliable indicator of infant death rates in Kansas.

Rates based on a small or large number of events in a sparsely populated area can vary widely. To exemplify the variation that may occur with a small change in the number of events, in 2003 Greeley county was the least populated county in Kansas with 1,420 residents and Johnson county was the largest with 486,515 residents. With 19 deaths occurring in Greeley county in 2003, the crude death rate was 13.4 deaths per 1,000 population; whereas 2,847 deaths occurring in Johnson county resulted in a crude death rate of 5.9 deaths per 1,000 population. If five more deaths occurred in each county (e.g., multiple-death accident), Greeley county's crude death rate would have increased to 16.9, while Johnson county's rate would have increased by only a few hundredths and, with rounding, still remain 5.9 deaths per 1,000 population. Therefore, one must use caution when comparing rates of vital events between counties of extreme population size differences to avoid misleading conclusions.

Limitations of Pregnancy Outcome Data

From July, 1970 through June, 1995, only hospitals in Kansas were required by K.S.A. 65-445 to keep and submit to the Secretary of the Department of Health and Environment written records of all pregnancies terminated in the hospital. During this reporting period, nonhospital providers reported terminations only on a voluntary basis. Although Kansas had a comprehensive coverage of providers, there could have been a small number of abortions not reported. This means that the data may have been, to a certain degree, underreported. However, effective July 1, 1995, the Kansas legislature amended K.S.A. 65-445 in Senate Bill 384 to broaden the record-keeping and reporting requirement to include every medical care facility and every person licensed to practice medicine and surgery.

Criteria for the Adequacy of Prenatal Care Utilization (APNCU) INDEX.

I. Month prenatal care began (Adequacy of Initiation of Prenatal Care)

Adequate Plus: 1st or 2nd month

Adequate: 3rd or 4th month

Intermediate: 5th or 6th month

Inadequate: 7th month or later, or no prenatal care

II. Proportion of the number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG) received from the time prenatal care began until delivery (Adequacy of Received Services)

Adequate Plus: 110% or more

Adequate: 80% - 109%

Intermediate: 50% - 79%

Inadequate: less than 50%

III. Summary Adequacy of Prenatal Care Utilization Index

Adequate Plus: Prenatal care begun by the 4th month and 110% or more of recommended visits received

Adequate: Prenatal care begun by the 4th month and 80% - 109% of recommended visits received

Intermediate: Prenatal care begun by the 4th month and 50% - 79% of recommended visits received

Inadequate: Prenatal care begun after the 4th month or less than 50% of recommended visits received

Technical Notes (Cont.)

The bibliographic reference relating to this index is: Kotelchuck, Milton. "An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index.", American Journal of Public Health, 1994; 84(9): 1414-1420.

Handling of Unknowns. Items for which no response was provided are shown as "not stated" (N.S.) in the tables and graphs throughout this publication. To ensure the accuracy of the data, the "not stated" have been removed from totals when calculating percentages.

DEFINITIONS

The following terms, formulas and symbols are defined for more meaningful interpretations of the data contained in this report.

Abortion (induced termination of pregnancy):	The purposeful interruption of pregnancy with the intention other than to produce a live-born infant or to remove a dead fetus and which does not result in a live birth.
Adequacy of Prenatal Care Utilization (APNCU) Index:	An assessment of the adequacy of prenatal care measured by the APNCU Index (often referred to as the Kotelchuck Index), a composite measure based on gestational age of the newborn, the trimester prenatal care began, and the number of prenatal visits made.
Annulment:	The invalidation of a marriage contract.
Birth Weight:	The weight of the fetus or infant at the time of delivery.
Cause of Death:	The underlying cause of death, or that condition giving rise to the chain of events leading to death.
Congenital Anomalies:	Defects existing at and usually before birth regardless of causation.
Divorce:	The dissolution of a legally binding marriage contract.
Stillbirth:	Any complete expulsion or extraction from its mother of a product of human conception, the weight of which is in excess of 350 grams, irrespective of the duration of pregnancy, resulting in other than a live birth, and which is not an induced termination of pregnancy.
Hebdomadal Death:	The death of a live-born infant which occurs prior to the seventh day of life.
I.C.D. Code:	The cause-identifying number classified in the Tenth Revision of the <u>International Classification of Diseases</u> implemented by NCHS for deaths in 1999.
Infant Death:	The death of a live-born infant which occurs within the first year of life.
Live Birth:	The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.

DEFINITIONS (Cont.)

Low Birth Weight:	Weight of a fetus or infant at delivery which is under 2,500 grams (less than five pounds, 8 ounces).
Marriage:	The legal union of a male and female.
Marriage Dissolution:	A marriage dissolved by either a divorce or an annulment.
Maternal Death:	The death of a mother caused by complications of pregnancy, childbirth and the puerperium.
Medical Procedure I:	Refers to use of the drug mifepristone as a pregnancy termination procedure.
Medical Procedure II:	Refers to use of the drug methotrexate as a pregnancy termination procedure.
Natural Increase:	Live births minus total deaths of a population within a given year.
Neonatal Death:	The death of a live-born infant which occurs prior to the twenty-eighth day of life.
Occurrence Data:	Vital statistics compiled on the basis of where the vital event happened.
Out-of-Wedlock Birth:	A birth occurring to a mother who is not married at the time of conception or at the time of birth or at any time between conception and birth.
Peer Group:	A group of counties with similar population densities in persons per square mile, as adopted by the Kansas Department of Health and Environment, Office of Local and Rural Health.
Perinatal Period III Death:	The aggregate total of stillbirths (fetus weighs over 350 grams) and hebdomadal deaths (deaths that occur prior to the 7th day of life).
Population Density:	The average number of inhabitants per square mile.
Prenatal Care:	Pregnancy-related health care services provided to a woman between conception and delivery.
Previous Pregnancy:	Includes all previous reported spontaneous Terminations, previous induced abortions, children born still living and children born now dead.
Puerperium:	Period of time after delivery, usually six to eight weeks, during which all maternal reproductive organs return to the normal pre-pregnancy condition.

DEFINITIONS (Cont.)

Residence Data:	Vital statistics compiled on the basis of the usual place of residence of the person(s) to whom the vital event occurred.
Teenage Pregnancy:	A live birth, stillbirth or abortion occurring to a female under 20 years of age.
Trimester:	A three-month period of time. First trimester care, for example, refers to care initiated in the first three months of pregnancy.
Very Low Birth Weight:	Weight of a fetus or infant at delivery which is under 1,500 grams (less than 3 pounds, 5 ounces).
Weeks Gestation:	The number of weeks between the last reported normal menses and the delivery of the fetus or infant.

RATES AND RATIOS

Abortion Ratio:	$\frac{\text{induced abortions}}{\text{live births}}$	x 1,000
Age-Adjusted Death Rate:	$\frac{\sum \text{Ma}_a \text{Pa}_a}{P}$	x 1,000 or 100,000
Where	M_a	= age-specific death rate per 1,000 or 100,000 population for a given age-group
	P_a	= standard population in a given age-group
	P	= total standard population
Age-Specific Death Rate:	$\frac{\text{deaths in a specific age-group}}{\text{population in a specific age-group}}$	x 1,000
Age-Specific Fertility Rate:	$\frac{\text{live births in a specific age-group}}{\text{female population in a specific age-group}}$	x 1,000
Birth Rate:	$\frac{\text{live births}}{\text{total population}}$	x 1,000
Cause-Specific Death Rate:	$\frac{\text{cause-specific deaths}}{\text{total population}}$	x 100,000
Death Rate:	$\frac{\text{total deaths}}{\text{total population}}$	x 1,000
Divorce Rate:	$\frac{\text{divorces}}{\text{total population}}$	x 1,000
Marriage Dissolution Rate:	$\frac{\text{divorces and annulments}}{\text{total population}}$	x 1,000
Fertility Rate:	$\frac{\text{live births}}{\text{female population 15-44}}$	x 1,000
Stillbirth Rate:	$\frac{\text{stillbirths}}{\text{live births} + \text{stillbirths}}$	x 1,000
Hebdomadal Death Rate:	$\frac{\text{hebdomadal deaths}}{\text{live births}}$	x 1,000
Infant Death Rate:	$\frac{\text{infant deaths}}{\text{live births}}$	x 1,000
Marriage Rate:	$\frac{\text{marriages}}{\text{total population}}$	x 1,000
Maternal Death Rate:	$\frac{\text{maternal deaths}}{\text{live births}}$	x 10,000

RATES AND RATIOS (Cont.)

Natural Increase Rate:	live birth rate minus total death rate	
Neonatal Death Rate:	<u>neonatal deaths</u> live births	x 1,000
Out-of-Wedlock Birth Ratio:	<u>out-of-wedlock births</u> live births	x 100
Perinatal Period III Death Rate:	<u>perinatal period III deaths</u> live births + stillbirths	x 1,000
Teenage Pregnancy Rate:	live births, stillbirths, abortions for females <u>in a specific age-group</u> female population in a specific age-group	x 1,000
Years of Potential Life Lost Rate	<u>years of potential life lost</u> population	x 1,000

SYMBOLS AND ABBREVIATIONS

n.s.	not stated
n.a.	not available
n/a	not applicable
0.0	quantity or percent more than zero but less than 0.05.